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Service Manual

ORDER NO.
RRV3680

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-LX70

VSX-LX60

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	The voltage can be converted by the following method.
VSX-LX70	LFXJ	AC 110 V	----------
VSX-LX70	HDLPWXJ	AC 220 V/230 V to 240 V	with the voltage selector
VSX-LX60	LFXJ	AC 110 V	----------
VSX-LX60	HDLPWXJ	AC 220 V/230 V to 240 V	with the voltage selector

This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
VSX-LX70/HYXJ5	RRV3653	

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T-ZZV OCT. 2007 printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 x 10^3 → 473 .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → R50 .... RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 Ω → 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

1.1 CONTRAST TABLE

VSX-LX70/HYXJ5, VSX-LX70/LFXJ, VSX-LX70/HDLPWXJ, VSX-LX60/LFXJ and VSX-LX60/HDLPWXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX70/LFXJ	VSX-LX70/ HDLPWXJ	VSX-LX60/LFXJ	VSX-LX60/ HDLPWXJ	Remarks
		PCB ASSEMBLIES						
NSP		1.. VIDEO ASSY	AWQ7056	AWQ7052	AWQ7052	AWQ7052	AWQ7052	
	P99-2	2.. COMPOSITE V ASSY	AWX8972	AWX8884	AWX8884	AWX8884	AWX8884	
	P99-3	2.. S VIDEO ASSY	AWX8973	AWX8886	AWX8886	AWX8886	AWX8886	
NSP		1..POWER AMP ASSY	AWH7012	AWH7013	AWH7013	AWH7013	AWH7013	
	P101-3	2.. POWER PROTECT ASSY	AWX8659	AWX8660	AWX8660	AWX8660	AWX8660	
NSP		1..SECONDARY ASSY	AWR7054	AWR7056	AWR7056	AWR7060	AWR7060	
NSP	P97-13	2.. TRANS SIDE ASSY	AWX8921	AWX8922	AWX8922	AWX8922	AWX8922	
	P97-7	2.. SP/PS ASSY	AWX8910	AWX8910	AWX8910	AWX8912	AWX8912	*1
	P97-11	2.. DC/DC ASSY	AWX8917	AWX8917	AWX8917	AWX8918	AWX8918	*2
NSP		1..COMPLEX ASSY	AWM8082	AWM8085	AWM8084	AWM8098	AWM8097	
	P97-4	2.. PRIMARY ASSY	AWX8895	AWX8898	AWX8897	AWX8898	AWX8897	
		2.. 2VOLT-SW-H ASSY	Not used	Not used	AWX8892	Not used	AWX8892	No.1
	P103-2	2.. FRONT-IN ASSY	AWX8902	AWX8902	AWX8902	AWX8903	AWX8903	
	P97-2	HDMI & DLNA ASSY	AWX8974	AWX8870	AWX8870	Not used	Not used	
	P97-6	HDMI & DVC ASSY	Not used	Not used	Not used	AWX8871	AWX8871	*3
	P97-5	DIGITAL MOTHER ASSY	AWP7047	AWP7051	AWP7050	AWP7056	AWP7055	
	P99-5	COMPONENT & VOL ASSY	AWQ7042	AWQ7041	AWQ7041	AWQ7046	AWQ7046	
		PACKING SECTION						
⚠	P93-4	AC Power Cord	ADG7062	ADG7076	ADG7062	ADG7076	ADG7062	
	P93-5	Remote Control Unit	AXD7505	AXD7499	AXD7499	AXD7500	AXD7500	
NSP	P93-7	AA/IEC R6P Dry Cell Batteries	VEM1031	XEX3001	VEM1031	XEX3001	VEM1031	
	P93-8	Operating Instructions(English)	ARB7381	Not used	ARB7382	Not used	ARB7382	
	P93-9	Operating Instructions(French)	ARC7749	Not used	Not used	Not used	Not used	
	P93-10	Operating Instructions(German)	ARC7750	Not used	Not used	Not used	Not used	
	P93-11	Operating Instructions(Italian)	ARC7751	Not used	Not used	Not used	Not used	
	P93-12	Operating Instructions(Spanish)	ARC7752	Not used	ARC7754	Not used	ARC7754	
	P93-13	Operating Instructions(Dutch)	ARC7753	Not used	Not used	Not used	Not used	
	P93-14	Operating Instructions(Russian)	ARC7769	Not used	Not used	Not used	Not used	
	P93-15	Operating Instructions (7L)	ARE7633	Not used	Not used	Not used	Not used	
NSP	P93-17	Warranty Card	ARY7065	Not used	Not used	Not used	Not used	
	P93-18	Label (WEEE)	ARW7322	Not used	Not used	Not used	Not used	

Mark	No.	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX70/LFXJ	VSX-LX70/ HDLPWXJ	VSX-LX60/LFXJ	VSX-LX60/ HDLPWXJ	Remarks
	P93-20	Disclaimer (6L)	XRM3010	XRM3009	XRM3009	XRM3009	XRM3009	
	P93-25	Packing Case	AHD8550	AHD8554	AHD8555	AHD8551	AHD8552	
		30p Plug	XDE7025	Not used	Not used	Not used	Not used	
		Caution 220 V	Not used	Not used	ARR7022	Not used	ARR7022	
		Caution Card SD SB	Not used	Not used	ARM7063	Not used	ARM7063	
		Operating Instructions(CH)	Not used	ARC7755	Not used	ARC7755	Not used	
		Operating Instructions (3L)	Not used	ARE7634	ARE7634	Not used	Not used	
		Ipod Cable Caution 7	ARX7106	Not used	Not used	Not used	Not used	
		J-shape Plug	Not used	Not used	AKX7008	Not used	AKX7008	
⚠		Power Plug Adapter	Not used	Not used	AKX7022	Not used	AKX7022	
		CHASSIS SECTION						
⚠	P97-19	Power Transformer (T1501)	ATS7403	ATS7405	ATS7405	ATS7405	ATS7405	
⚠	P97-21	Fuse (FU1 : T5AL/250V)	REK1029	DEK1045	DEK1045	DEK1045	DEK1045	
	P97-24	22P Flexible Cable (J52)	ADD7633	ADD7633	ADD7633	Not used	Not used	
	P97-37	Shield Cushion	AEB7372	AEB7372	AEB7372	Not used	Not used	
⚠	P97-41	Power Transformer (T1502)	ATT7104	ATT7103	ATT7104	ATT7103	ATT7104	
⚠		Fuse(FU2:T4AL/250V)	Not used	REK1028	REK1028	REK1028	REK1028	No.2
⚠		Fuse(FU3:T4AL/250V)	Not used	REK1028	Not used	REK1028	Not used	No.2
NSP	P97-67	Fuse Card	AAX7098	AAX7970	AAX7970	AAX7970	AAX7970	
	P97-71	Nylon Rivet	AEC7406	Not used	Not used	Not used	Not used	
	P97-72	Primary Barrier (PC)	AEC7569	Not used	Not used	Not used	Not used	
	P97-73	Shield Case	AMR7526	Not used	Not used	Not used	Not used	
		REAR PANEL SECTION						
	P99-9	FM/AM TUNER Unit	AXX7248	AXX7251	AXX7251	AXX7251	AXX7251	
	P99-17	Rear Panel	ANC8485	ANC8492	ANC8486	ANC8493	ANC8491	
		DC Fan Motor	Not used	AXM7029	AXM7029	AXM7029	AXM7029	No.3
⚠		CAP Label	Not used	Not used	AAX8138	Not used	AAX8137	
		FRONT PANEL SECTION						
	P103-19	Door Sheet 60HY	AAK8405	AAK8405	AAK8405	AAK8419	AAK8419	
	P103-25	Front Panel TOP	ANB7463	ANB7464	ANB7464	ANB7461	ANB7461	
	P103-26	Front Panel BTM 60HY	ANB7467	ANB7469	ANB7469	ANB7468	ANB7468	
	P103-33	5P Shielded Cable	ADX7573	ADX7573	ADX7573	Not used	Not used	

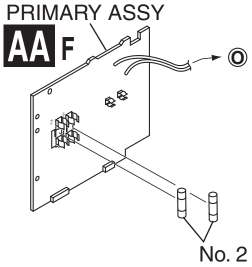
*1: Refer to SP/PS Assy (AWX8912) for VSX-LX60/HYXJ5.

*2: Refer to DC/DC Assy (AWX8918) for VSX-LX60/HYXJ5.

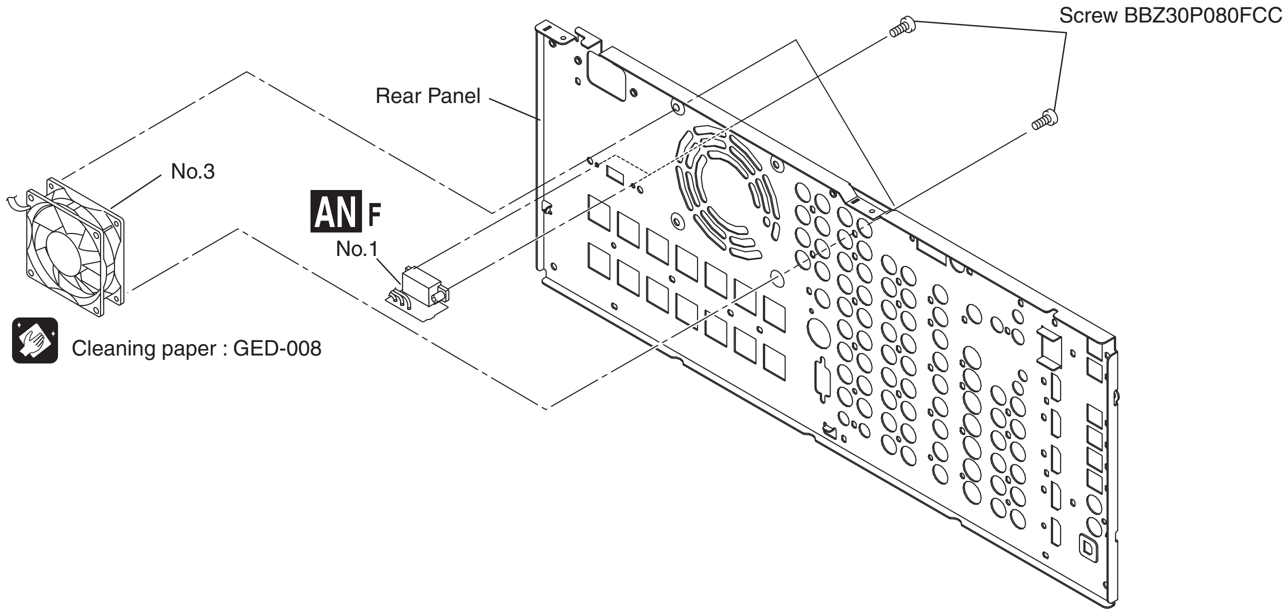
*3: Refer to HDMI & DVC Assy (AWX8975) for VSX-LX60/HYXJ5.

EXPLODED VIEWS

■ CHASSIS SECTION


PRIMARY ASSY
AA F
No. 2

■ REAR PANEL SECTION


Screw BBZ30P080FCC
Rear Panel
No.3
AN F
No.1
Cleaning paper : GED-008

1.2 CONTRAST OF PCB ASSEMBLIES

C F FRONT-IN ASSY

AWX8902 and AWX8903 are constructed the same except for the following:

Mark	Symbol and Description	AWX8902	AWX8903	Remarks
	D3502 Zener Diode	UMZU6.2N	Not used	
	D3504 Zener Diode	UMZU6.2N	Not used	
	C3503 Capacitor	CKSRYB104K16	Not used	
	R3501 Resistor	RS1/16S0R0J	Not used	
	R3502 Resistor	RS1/16S0R0J	Not used	
	R3503 Resistor	RS1/16S0R0J	Not used	
	R3504 Resistor	RS1/16S0R0J	Not used	
	R3505 Resistor	RS1/16S0R0J	Not used	
	R3506 Resistor	RS1/16S0R0J	Not used	
	R3507 Resistor	RS1/16S0R0J	Not used	
	R3508 Resistor	RS1/16S0R0J	Not used	
	R3509 Resistor	RS1/16S0R0J	Not used	
	R3510 Resistor	RS1/16S222J	Not used	
	R3511 Resistor	RS1/16S0R0J	Not used	
	R3512 Resistor	RS1/16S0R0J	Not used	
	CN3501 Plug(5p)	KM200NA5	Not used	
	JA3501 Usb Connector	XKP3086	Not used	
	3501 Pcb Binder	VEF1040	Not used	

G F TRANS SIDE ASSY

AWX8921 and AWX8922 are constructed the same except for the following:

Mark	Symbol and Description	AWX8921	AWX8922	Remarks
	CN4401 3pin Connector	Not used	S3B-EH	

I F COMPOSITE V ASSY

AWX8972 and AWX8884 are constructed the same except for the following:

Mark	Symbol and Description	AWX8972	AWX8884	Remarks
	D2004 Diode	DAN217U	Not used	
	D2005 Diode	DAN217U	Not used	
	D2006 Diode	DAN217U	Not used	
	D2007 Diode	DAN217U	Not used	
	D2008 Diode	DAN217U	Not used	

J F S-VIDEO ASSY

AWX8973 and AWX8886 are constructed the same except for the following:

Mark	Symbol and Description	AWX8973	AWX8886	Remarks
	D2203 Diode	DAN217U	Not used	
	D2204 Diode	DAN217U	Not used	
	D2205 Diode	DAN217U	Not used	
	D2206 Diode	DAN217U	Not used	
	D2207 Diode	DAN217U	Not used	
	C2231 Capacitor	CKSRYB474K10	Not used	
	C2262 Capacitor	CKSRYB104K16	Not used	

K F COMPONENT & VOL ASSY

AWQ7042, AWQ7046 and AWQ7041 are constructed the same except for the following:

Mark	Symbol and Description	AWQ7042	AWQ7041	AWQ7046	Remarks
	IC2631 Ic	TC4053BFN	TC4053BFN	Not used	
	IC2633 Op-amp Ic	BA4560RF	BA4560RF	Not used	

Mark	Symbol and Description	AWQ7042	AWQ7041	AWQ7046	Remarks
	IC2634 Op-amp Ic	BA4560RF	BA4560RF	Not used	
	IC2635 Ic	TC4052BFN	TC4052BFN	Not used	
	IC2701 Rds Decorder Ic	LC72725KM	Not used	Not used	
	Q2630 Transistor	RT1N241M	RT1N241M	Not used	
	Q2632 Transistor	RT1N241M	RT1N241M	Not used	
	Q2633 Transistor	RT1N241M	RT1N241M	Not used	
	D2411 Diode	DAN217U	Not used	Not used	
	D2412 Diode	DAN217U	Not used	Not used	
	D2413 Diode	DAN217U	Not used	Not used	
	D2414 Diode	DAN217U	Not used	Not used	
	D2761 Diode	1SS352	Not used	Not used	
	L2768 Chip Solid Inductor	QTL1013	Not used	Not used	
	C2474 Capacitor	CKSRYB474K10	Not used	Not used	
	C2631 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2632 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2639 Capacitor	CCSRCH220J50	CCSRCH220J50	Not used	
	C2640 Capacitor	CCSRCH220J50	CCSRCH220J50	Not used	
	C2641 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2642 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2643 Capacitor	CCSRCH220J50	CCSRCH220J50	Not used	
	C2644 Capacitor	CCSRCH220J50	CCSRCH220J50	Not used	
	C2645 Capacitor	CEAT100M50	CEAT100M50	Not used	
	C2646 Capacitor	CEAT100M50	CEAT100M50	Not used	
	C2647 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2648 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2651 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2652 Capacitor	CKSRYB103K50	CKSRYB103K50	Not used	
	C2760 Capacitor	CKSRYB472K50	Not used	Not used	
	C2764 Capacitor	CCSRCH561J50	Not used	Not used	
	C2765 Capacitor	CEAT101M10	Not used	Not used	
	C2766 Capacitor	CCSRCH102J50	Not used	Not used	
	C2767 Capacitor	CCSRCH270J50	Not used	Not used	
	C2768 Capacitor	CCSRCH270J50	Not used	Not used	
	C2769 Capacitor	CEAT100M50	Not used	Not used	
	R2641 Resistor	RS1/16S472J	RS1/16S472J	Not used	
	R2642 Resistor	RS1/16S472J	RS1/16S472J	Not used	
	R2643 Resistor	RS1/16S101J	RS1/16S101J	Not used	
	R2644 Resistor	RS1/16S101J	RS1/16S101J	Not used	
	R2645 Resistor	RS1/16S113J	RS1/16S113J	Not used	
	R2646 Resistor	RS1/16S113J	RS1/16S113J	Not used	
	R2647 Resistor	RS1/16S0R0J	RS1/16S0R0J	Not used	
	R2648 Resistor	RS1/16S0R0J	RS1/16S0R0J	Not used	
	R2649 Resistor	RS1/16S153J	RS1/16S153J	Not used	
	R2650 Resistor	RS1/16S153J	RS1/16S153J	Not used	
	R2651 Resistor	RS1/16S113J	RS1/16S113J	Not used	
	R2652 Resistor	RS1/16S113J	RS1/16S113J	Not used	
	R2653 Resistor	RS1/16S472J	RS1/16S472J	Not used	
	R2654 Resistor	RS1/16S472J	RS1/16S472J	Not used	
	R2655 Resistor	RS1/16S474J	RS1/16S474J	Not used	
	R2656 Resistor	RS1/16S474J	RS1/16S474J	Not used	
	R2659 Resistor	Not used	Not used	RS1/16S0R0J	
	R2660 Resistor	Not used	Not used	RS1/16S0R0J	
	R2661 Resistor	Not used	Not used	RS1/16S0R0J	
	R2662 Resistor	Not used	Not used	RS1/16S0R0J	
	R2690 Resistor	RS1/16S473J	RS1/16S473J	Not used	
	R2691 Resistor	RS1/16S473J	RS1/16S473J	Not used	
	R2692 Resistor	RS1/16S473J	RS1/16S473J	Not used	
	R2777 Resistor	RS1/16S102J	Not used	Not used	

Mark	Symbol and Description	AWQ7042	AWQ7041	AWQ7046	Remarks
	R2778 Resistor	RS1/16S102J	Not used	Not used	
	R2779 Resistor	RS1/16S473J	Not used	Not used	
	X2761 Crystal Resonator	ASS7004	Not used	Not used	

L F DIGITAL MOTHER ASSY

AWP7047, AWP7051, AWP7050, AWP7056 and AWP7055 are constructed the same except for the following:

Mark	Symbol and Description	AWP7047	AWP7051	AWP7050	AWP7056	AWP7055	Remarks
	IC315 Ic	TC74LCX541FTS1	TC74LCX541FTS1	TC74LCX541FTS1	Not used	Not used	
	L315 Chip Solid Inductor	QTL1013	QTL1013	QTL1013	Not used	Not used	
	C307 Capacitor	CKSRYB104K16	CKSRYB104K16	CKSRYB104K16	Not used	Not used	
	C346 Capacitor	CKSSYB104K10	CKSSYB104K10	CKSSYB104K10	Not used	Not used	
	R104 Resistor	RS1/16S104J	RS1/16S104J	RS1/16S104J	Not used	Not used	
	R125 Resistor Array	RAB4CQ101J	RAB4CQ101J	RAB4CQ101J	Not used	Not used	
	R126 Resistor	RS1/16S104J	RS1/16S104J	RS1/16S104J	Not used	Not used	
	R127 Resistor	RS1/16S104J	RS1/16S104J	RS1/16S104J	Not used	Not used	
	R129 Resistor	RS1/16SS101J	RS1/16SS101J	RS1/16SS101J	Not used	Not used	
	R130 Resistor	RS1/16S104J	RS1/16S104J	RS1/16S104J	Not used	Not used	
	R136 Resistor	RS1/16SS101J	RS1/16SS101J	RS1/16SS101J	Not used	Not used	
	R137 Resistor	RS1/16S104J	RS1/16S104J	RS1/16S104J	Not used	Not used	
	R140 Resistor	RS1/16SS101J	Not used	Not used	Not used	Not used	
	R141 Resistor	RS1/16SS101J	Not used	Not used	Not used	Not used	
	R152 Resistor	RS1/16S473J	RS1/16S333J	RS1/16S473J	Not used	RS1/16S473J	
	R153 Resistor	RS1/16S473J	RS1/16S104J	RS1/16S473J	RS1/16S473J	Not used	
	R154 Resistor	Not used	Not used	RS1/16S473J	RS1/16S473J	RS1/16S473J	
	R155 Resistor	RS1/16S473J	RS1/16S473J	RS1/16S473J	RS1/16S473J	Not used	
	R175 Resistor	RS1/16SS104J	Not used	Not used	Not used	Not used	
	R176 Resistor	RS1/16SS104J	Not used	Not used	Not used	Not used	
	R250 Resistor	RS1/16S104J	RS1/16S104J	RS1/16S104J	Not used	Not used	
	R313 Resistor	RS1/16SS101J	RS1/16SS101J	RS1/16SS101J	Not used	Not used	
	R400 Resistor	RS1/16SS470J	RS1/16SS470J	RS1/16SS470J	Not used	Not used	
	R433 Resistor	RS1/16SS470J	RS1/16SS470J	RS1/16SS470J	Not used	Not used	
	R434 Resistor	RS1/16SS470J	RS1/16SS470J	RS1/16SS470J	Not used	Not used	
	R435 Resistor	RS1/16SS470J	RS1/16SS470J	RS1/16SS470J	Not used	Not used	
	R436 Resistor	RS1/16SS470J	RS1/16SS470J	RS1/16SS470J	Not used	Not used	
	R437 Resistor Array	RAB4CQ470J	RAB4CQ470J	RAB4CQ470J	Not used	Not used	
	R555 Resistor	RS1/16SS101J	RS1/16SS101J	RS1/16SS101J	Not used	Not used	
	R556 Resistor	RS1/16SS0R0J	RS1/16SS0R0J	RS1/16SS0R0J	Not used	Not used	
	R557 Resistor	RS1/16SS0R0J	RS1/16SS0R0J	RS1/16SS0R0J	Not used	Not used	
	R655 Resistor	RS1/16SS101J	RS1/16SS101J	RS1/16SS101J	Not used	Not used	
	R656 Resistor	RS1/16SS0R0J	RS1/16SS0R0J	RS1/16SS0R0J	Not used	Not used	
	R657 Resistor	RS1/16SS0R0J	RS1/16SS0R0J	RS1/16SS0R0J	Not used	Not used	
	R755 Resistor	RS1/16SS101J	RS1/16SS101J	RS1/16SS101J	Not used	Not used	
	R756 Resistor	RS1/16SS0R0J	RS1/16SS0R0J	RS1/16SS0R0J	Not used	Not used	
	R757 Resistor	RS1/16SS0R0J	RS1/16SS0R0J	RS1/16SS0R0J	Not used	Not used	
	CN204 22p Connector	RKN1063	RKN1063	RKN1063	Not used	Not used	
	JA207 Opt. Link Out	AKS7002	AKS7002	AKS7002	Not used	Not used	

P F POWER PROTECT ASSY

AWX8659 and AWX8660 are constructed the same except for the following:

Mark	Symbol and Description	AWX8659	AWX8660	Remarks
	D5703 Diode	Not used	1SS355	
	R5719 Resistor	Not used	RS1/16S104J	

AA F PRIMARY ASSY

AWX8895, AWX8898 and AWX8897 are constructed the same except for the following:

Mark	Symbol and Description	AWX8895	AWX8898	AWX8897	Remarks
	T3061 Standby Transformer	ATT7040	XTT3006	ATT7040	
⚠	RY3061 JOE Lowpower Relay	ASR7013	ASR7022	ASR7013	
⚠	C3070 Film Capacitor	Not used	ACE7013	Not used	
	R3063 Carbon Film Resistor	RD1/4MUF101J	Not used	RD1/4MUF101J	
⚠	CN3064 AC Socket 1-p	AKP1034	Not used	Not used	
	KN3062 Screw Plate	Not used	VNE1948	VNE1948	
⚠	J3061 Lead Wire Unit	Not used	DB823EB0	DB823EB0	
⚠	J3062 Board In Jumper	Not used	DB323EB0	Not used	
⚠	J3063 Lead Wire Unit	Not used	DB123EB0	DB123EB0	
	H3063 Fuse Clip	Not used	AKR7001	Not used	
	H3064 Fuse Clip	Not used	AKR7001	Not used	
	H3065 Fuse Clip	Not used	AKR7001	AKR7001	
	H3066 Fuse Clip	Not used	AKR7001	AKR7001	

AJ F HDMI & DLNA ASSY

AWX8974 and AWX8870 are constructed the same except for the following:

Mark	Symbol and Description	AWX8974	AWX8870	Remarks
	C401 Chip Px Capacitor	VCH1234	CEVW101M16	
	C402 Chip Px Capacitor	VCH1234	CEVW101M16	
	C503 Chip Px Capacitor	VCH1234	CEVW101M16	
	C1301 Chip Px Capacitor	VCH1234	CEVW101M16	

AK F HDMI & DVC ASSY

AWX8975 and AWX8871 are constructed the same except for the following:

Mark	Symbol and Description	AWX8975	AWX8871	Remarks
	C402 Chip Px Capacitor	VCH1234	CEVW101M16	
	C503 Chip Px Capacitor	VCH1234	CEVW101M16	
	C1301 Chip Px Capacitor	VCH1234	CEVW101M16	

1.3 PCB PART LIST

AN F 2VOLT-SW-H ASSY

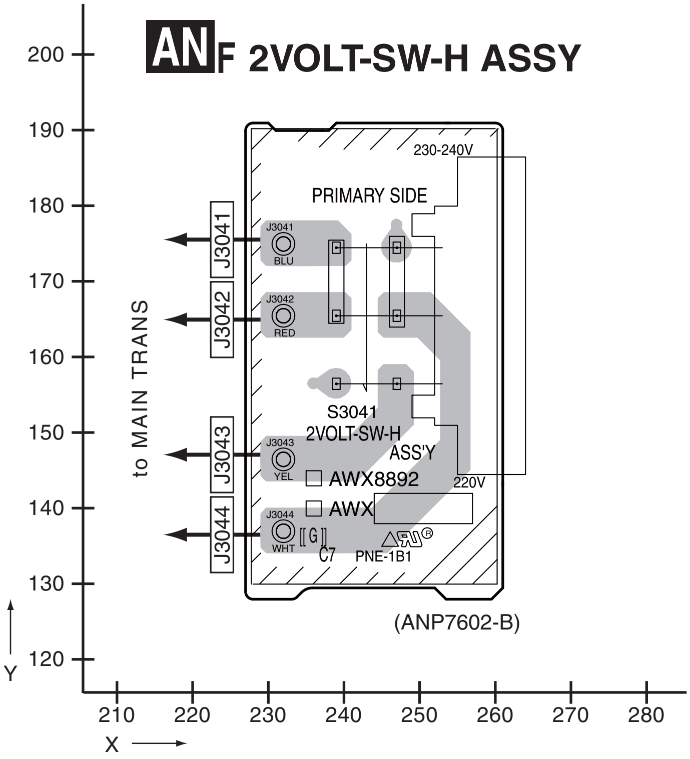
MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	J 3041 (A,232,175)	LEAD WIRE UNIT	DB630EB0
⚠	J 3042 (A,232,166)	LEAD WIRE UNIT	DB230EB0
⚠	J 3043 (A,232,147)	LEAD WIRE UNIT	DB430EB0
⚠	J 3044 (A,232,137)	BOARD IN WIRE	DB930EB0
⚠	S 3041 (A,239,157)	VOLTAGE SELECTOR	AKX7020

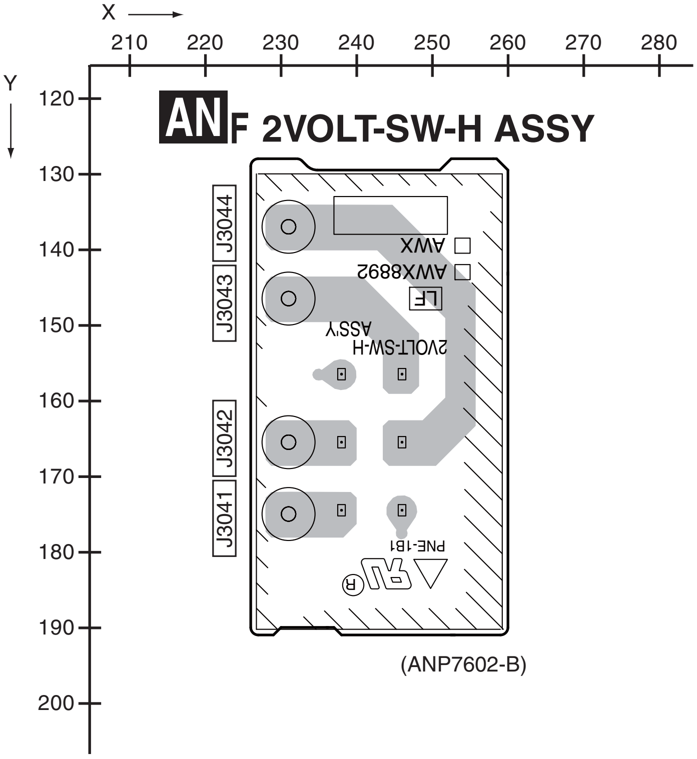
2. PCB CONNECTION DIAGRAM

2.1 2VOLT-SW-H ASSY

SIDE A **SIDE A**


ANF 2VOLT-SW-H ASSY
200
190
180
170
160
150
140
130
120
Y
210
220
230
240
250
260
270
280
X
to MAIN TRANS
J3041
J3042
J3043
J3044
230-240V
PRIMARY SIDE
J3041
BLU
J3042
RED
S3041
2VOLT-SW-H
ASS'Y
J3043
YEL
AWX8892
220V
AWX
J3044
WHT
[[G]]
C7
PNE-1B1
(ANP7602-B)

SIDE B **SIDE B**

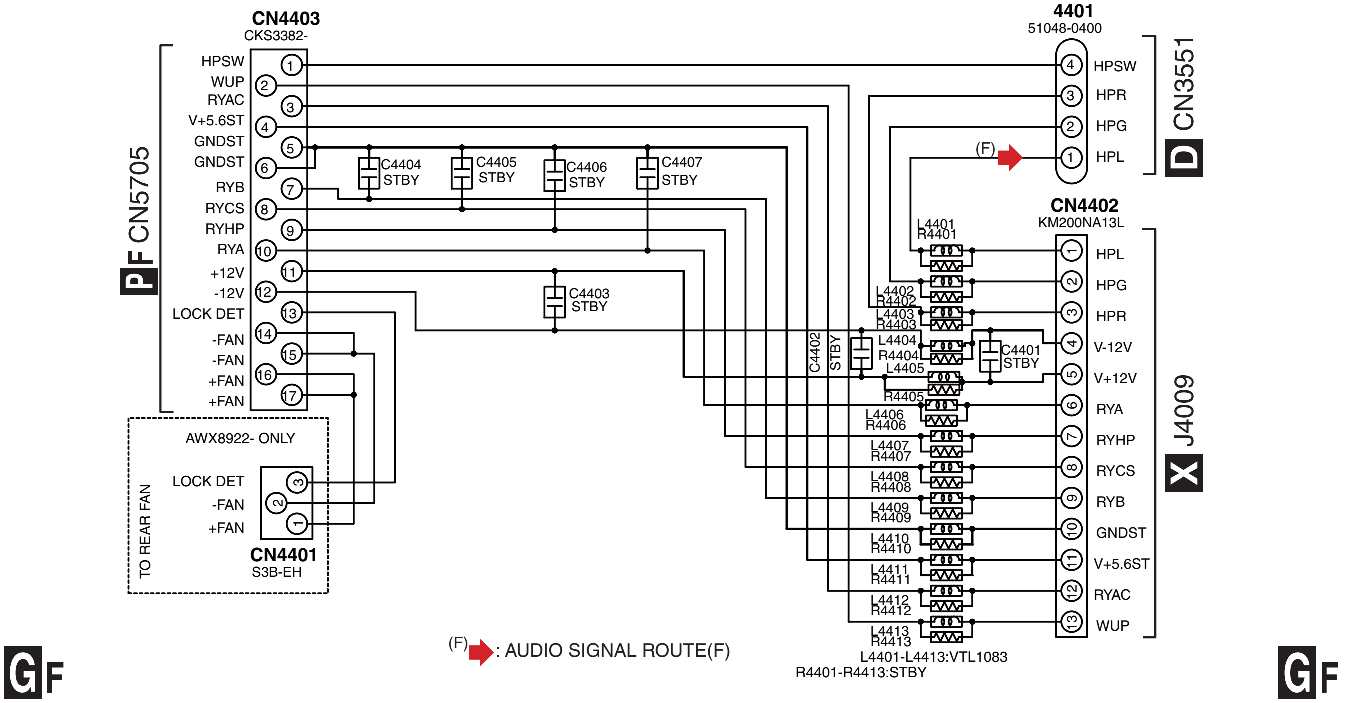

X
210
220
230
240
250
260
270
280
Y
120
130
140
150
160
170
180
190
200
ANF 2VOLT-SW-H ASSY
J3044
J3043
J3042
J3041
AWX
AWX8892
LF
2VOLT-SW-H
ASS'Y
PNE-1B1
(ANP7602-B)

ANF ANF

3. SCHEMATIC DIAGRAM

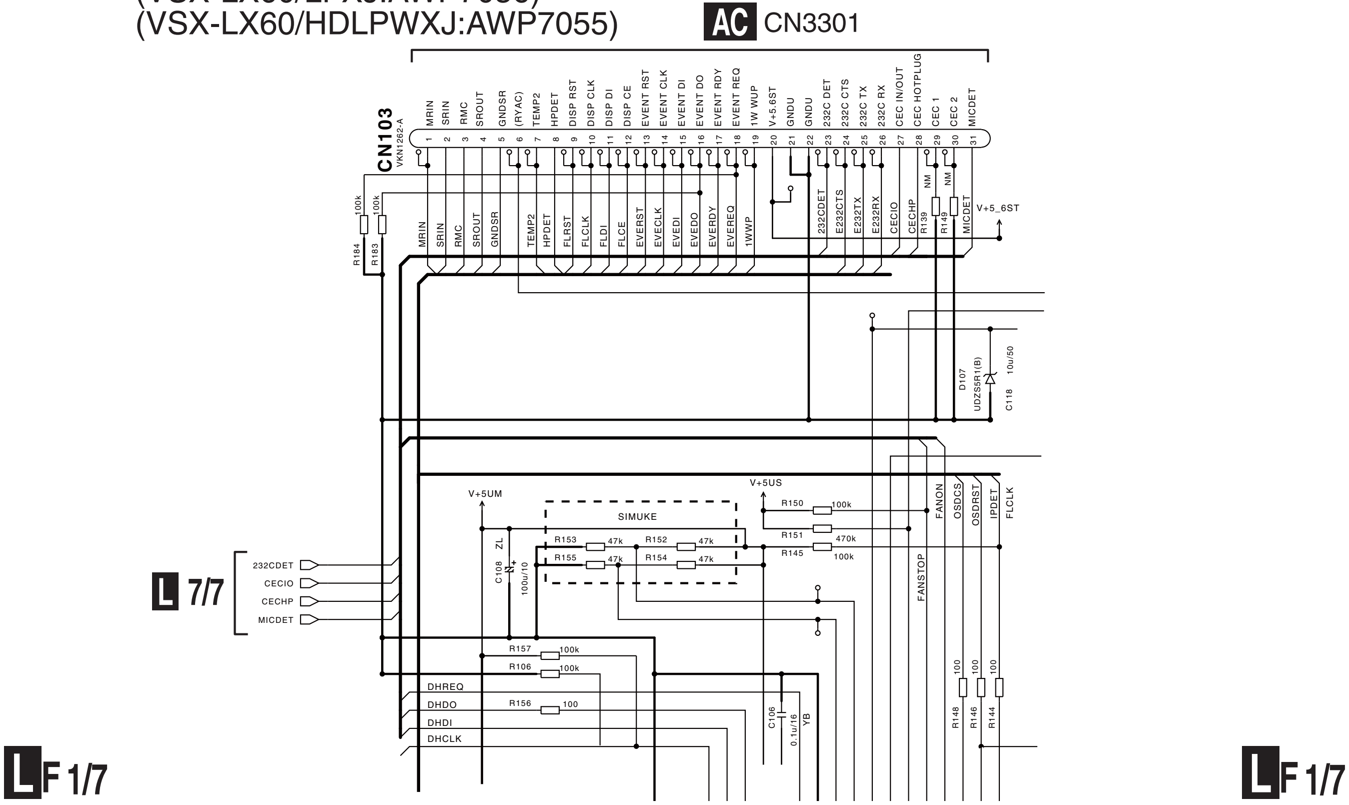
3.1 TRANS SIDE ASSY

GF TRANS SIDE ASSY (AWX8922)


CN4403
CKS3382-
HPSW 1
WUP 2
RYAC 3
V+5.6ST 4
GNDST 5
GNDST 6
RYB 7
RYCS 8
RYHP 9
RYA 10
+12V 11
-12V 12
LOCK DET 13
-FAN 14
-FAN 15
+FAN 16
+FAN 17
PF CN5705
C4404 STBY
C4405 STBY
C4406 STBY
C4407 STBY
C4403 STBY
C4402 STBY
C4401 STBY
AWX8922- ONLY
TO REAR FAN
LOCK DET 3
-FAN 2
+FAN 1
CN4401
S3B-EH
4401
51048-0400
4 HPSW
3 HPR
2 HPG
1 HPL
(F)
D CN3551
CN4402
KM200NA13L
L4401 R4401
L4402 R4402
L4403 R4403
L4404 R4404
L4405 R4405
L4406 R4406
L4407 R4407
L4408 R4408
L4409 R4409
L4410 R4410
L4411 R4411
L4412 R4412
L4413 R4413
1 HPL
2 HPG
3 HPR
4 V-12V
5 V+12V
6 RYA
7 RYHP
8 RYCS
9 RYB
10 GNDST
11 V+5.6ST
12 RYAC
13 WUP
X J4009
(F) : AUDIO SIGNAL ROUTE(F)
L4401-L4413:VTL1083
R4401-R4413:STBY
GF
GF

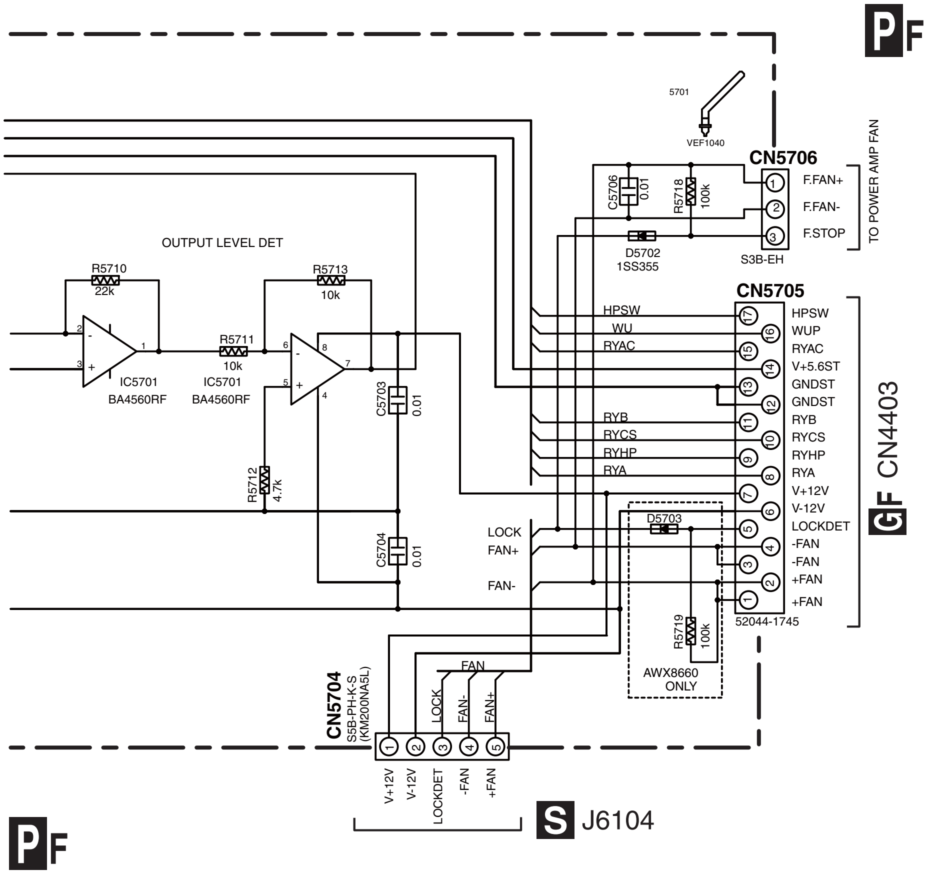
3.2 DIGITAL MOTHER ASSY (1/7)

LF 1/7 DIGITAL MOTHER ASSY
(VSX-LX70/LFXJ:AWP7051)
(VSX-LX70/HDLPWXJ:AWP7050)
(VSX-LX60/LFXJ:AWP7056)
(VSX-LX60/HDLPWXJ:AWP7055)


AC CN3301
CN103
VKN1262-A
1 MRIN
2 SRIN
3 RMC
4 SROUT
5 GNDSR
6 (RYAC)
7 TEMP2
8 HPDET
9 DISP RST
10 DISP CLK
11 DISP DI
12 DISP CE
13 EVENT RST
14 EVENT CLK
15 EVENT DI
16 EVENT DO
17 EVENT RDY
18 EVENT REQ
19 1W WUP
20 V+5.6ST
21 GNDU
22 GNDU
23 232C DET
24 232C CTS
25 232C TX
26 232C RX
27 CEC IN/OUT
28 CEC HOTPLUG
29 CEC 1
30 CEC 2
31 MICDET
R184 100k
R183 100k
MRIN
SRIN
RMC
SROUT
GNDSR
TEMP2
HPDET
FLRST
FLCLK
FLDI
FLCE
EVERST
EVECLK
EVEDI
EVEDO
EVERDY
EVEREQ
1WWP
232CDET
E232CTS
E232TX
E232RX
CECIO
CECHP
R139 NM
R149 NM
MICDET
V+5_6ST
D107
UDZS5R1(B)
C118
10u/50
L 7/7
232CDET
CECIO
CECHP
MICDET
V+5UM
ZL
C108
100u/10
SIMUKE
R153 47k
R152 47k
R155 47k
R154 47k
V+5US
R150 100k
R151 470k
R145 100k
FANON
OSDCS
OSDRST
IPDET
FLCLK
FANSTOP
R157 100k
R106 100k
R156 100
DHREQ
DHDO
DHDI
DHCLK
C106
0.1u/16
YB
R148 100
R146 100
R144 100
LF 1/7
LF 1/7

3.3 POWER PROTECT ASSY

PF POWER PROTECT ASSY
(AWX8660)


5701
VEF1040
CN5706
F.FAN+
F.FAN-
F.STOP
S3B-EH
TO POWER AMP FAN
C5706
0.01
R5718
100k
D5702
1SS355
OUTPUT LEVEL DET
R5710
22k
R5713
10k
R5711
10k
IC5701
BA4560RF
IC5701
BA4560RF
C5703
0.01
R5712
4.7k
C5704
0.01
CN5705
HPSW
WU
RYAC
RYB
RYCS
RYHP
RYA
LOCK
FAN+
FAN-
HPSW
WUP
RYAC
V+5.6ST
GNDST
GNDST
RYB
RYCS
RYHP
RYA
V+12V
V-12V
LOCKDET
-FAN
-FAN
+FAN
+FAN
52044-1745
GF CN4403
D5703
R5719
100k
AWX8660
ONLY
FAN
LOCK
FAN-
FAN+
CN5704
S5B-PH-K-S
(KM200NA5L)
V+12V
V-12V
LOCKDET
-FAN
+FAN
S J6104
PF

PF

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

NOTES

1.RESISTORS
  Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
  Rated power: 1/16W unless otherwise noted.
  Tolerance: ±5%(J) unless otherwise noted.
  F:±1% D:±0.5%
  RN:Fixed Metal Film
2.CAPACITORS
  No marked Capacitors are CEAT or CKSRYB. CH:CCSRCH
  Unit: p-pF or µF unless otherwise noted.
  Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
  No marked Diodes are 1SS355.

* Parts or parts block marked by "STBY" are standby.

3.4 2VOLT-SW-H AND PRIMARY ASSYS

⚠

	FU1	FU2	FU3
HDLPW/HA	DEK1045 (T10AL/250V)	REK1028 (T4AL/250V)	-
LF	DEK1045 (T10AL/250V)	REK1028 (T4AL/250V)	REK1028 (T4AL/250V)

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

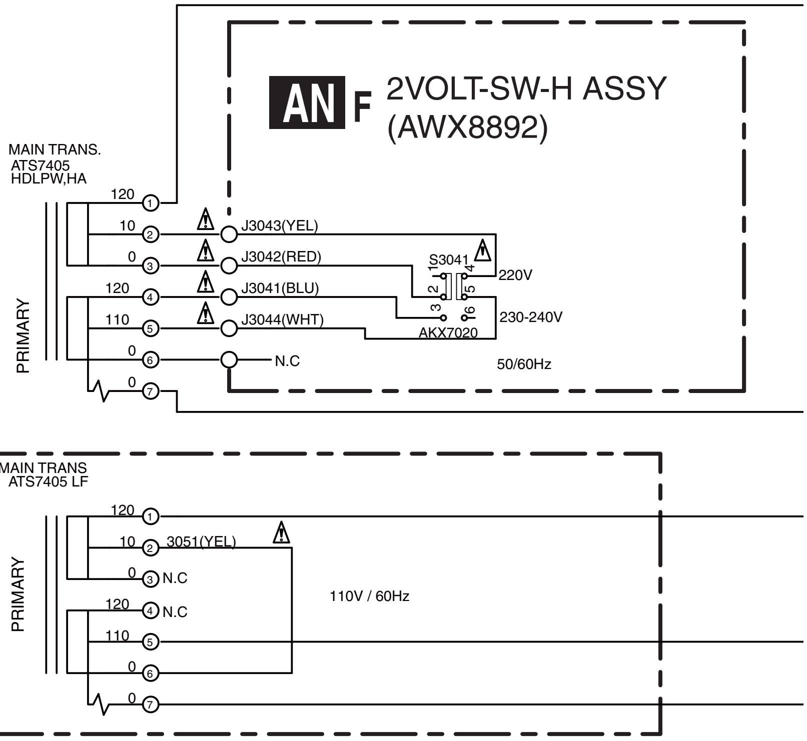
NOTES

1.RESISTORS
- Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
- Rated power: 1/16W unless otherwise noted.
- Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
- No marked Capacitors are CEAT or CKSRYB.
- Unit: p-pF or μF unless otherwise noted.
- Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
- No marked Diodes are 1SS352.

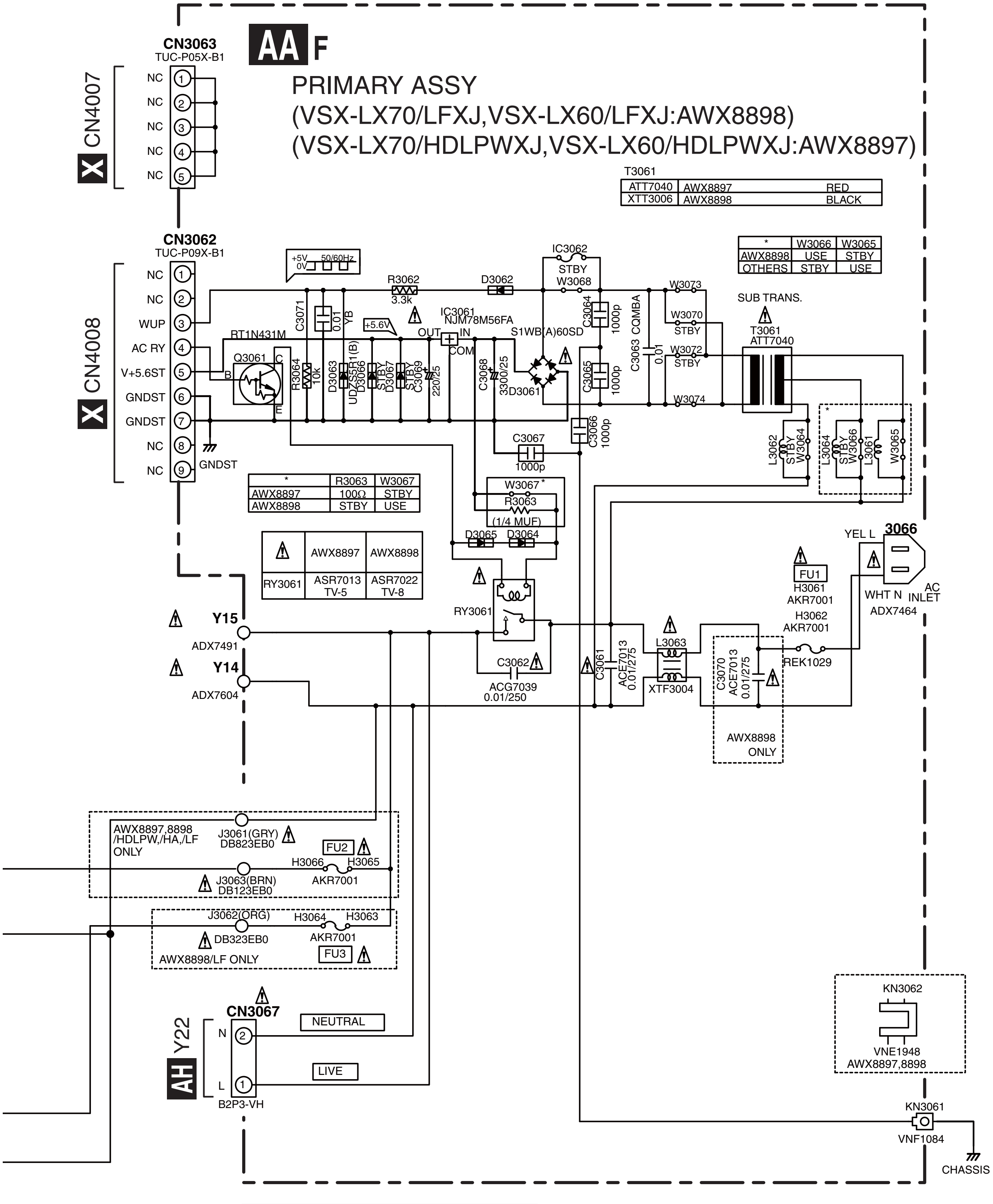
* Parts or parts block marked by "STBY" are standby.


AN F
2VOLT-SW-H ASSY
(AWX8892)
MAIN TRANS.
ATS7405
HDLPW,HA
PRIMARY
120
10
0
120
110
0
0
1
2
3
4
5
6
7
J3043(YEL)
J3042(RED)
J3041(BLU)
J3044(WHT)
N.C
S3041
1
2
3
4
5
6
220V
230-240V
AKX7020
50/60Hz
MAIN TRANS
ATS7405 LF
PRIMARY
120
10
0
120
110
0
0
1
2
3
4
5
6
7
3051(YEL)
N.C
N.C
110V / 60Hz

AN F

AA F

PRIMARY ASSY
(VSX-LX70/LFXJ,VSX-LX60/LFXJ:AWX8898)
(VSX-LX70/HDLPWXJ,VSX-LX60/HDLPWXJ:AWX8897)


CN3063
TUC-P05X-B1
X CN4007
NC 1
NC 2
NC 3
NC 4
NC 5
CN3062
TUC-P09X-B1
X CN4008
NC 1
NC 2
WUP 3
AC RY 4
V+5.6ST 5
GNDST 6
GNDST 7
NC 8
NC 9
GNDST
+5V
0V
50/60Hz
R3062
3.3k
D3062
IC3062
STBY
W3068
C3071
0.01
YB
RT1N431M
Q3061
B
C
E
R3064
10k
D3063
UDZS5R1(B)
D3066
STBY
D3067
STBY
C3069
220/25
+5.6V
IC3061
NJM78M56FA
OUT
IN
COM
C3068
3300/25
S1WB(A)60SD
D3061
C3064
1000p
C3065
1000p
C3063 CQMBA
0.01
C3066
1000p
C3067
1000p
W3073
W3070
STBY
W3072
STBY
W3074
SUB TRANS.
T3061
ATT7040
L3062
STBY
W3064
*
L3064
STBY
W3066
L3061
W3065
W3067 *
R3063
(1/4 MUF)
D3065
D3064
RY3061
C3062
ACG7039
0.01/250
Y15
ADX7491
Y14
ADX7604
C3061
ACE7013
0.01/275
L3063
XTF3004
C3070
ACE7013
0.01/275
AWX8898
ONLY
FU1
H3061
AKR7001
H3062
AKR7001
REK1029
YEL L
3066
WHT N
AC
INLET
ADX7464
AWX8897,8898
/HDLPW,/HA,/LF
ONLY
J3061(GRY)
DB823EB0
FU2
H3066
H3065
J3063(BRN)
DB123EB0
AKR7001
J3062(ORG)
H3064
H3063
DB323EB0
AKR7001
AWX8898/LF ONLY
FU3
CN3067
AH Y22
N 2
L 1
B2P3-VH
NEUTRAL
LIVE
KN3062
VNE1948
AWX8897,8898
KN3061
VNF1084
CHASSIS

T3061

ATT7040	AWX8897	RED
XTT3006	AWX8898	BLACK

*	W3066	W3065
AWX8898	USE	STBY
OTHERS	STBY	USE

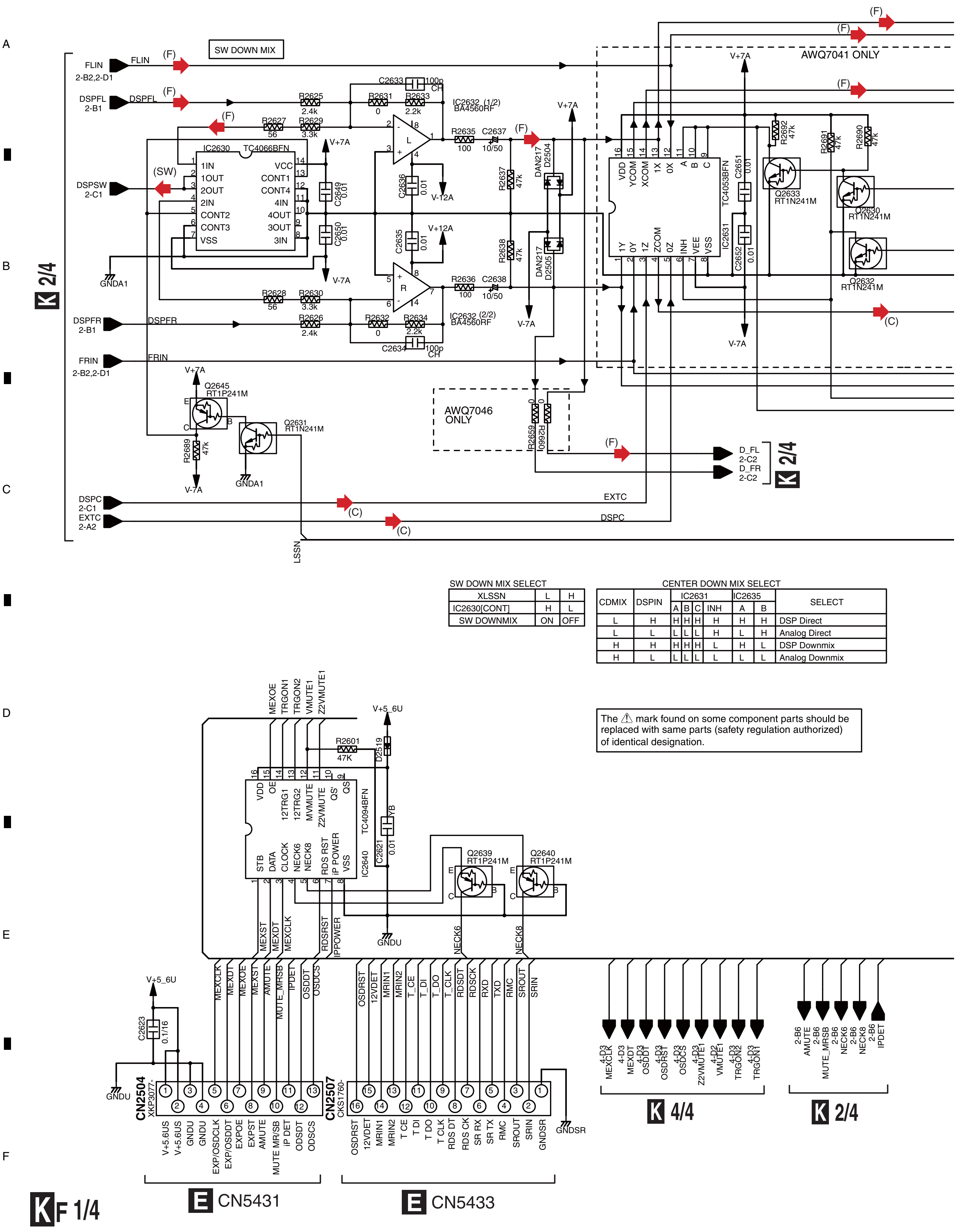
*	R3063	W3067
AWX8897	100Ω	STBY
AWX8898	STBY	USE

⚠	AWX8897	AWX8898
RY3061	ASR7013 TV-5	ASR7022 TV-8

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

AA F

3.5 COMPONENT & VOL ASSY (1/4)



SW DOWN MIX
FLIN
2-B2,2-D1
DSPFL
2-B1
DSPSW
2-C1
DSPFR
2-B1
FRIN
2-B2,2-D1
DSPC
2-C1
EXTC
2-A2
(F)
(SW)
(C)
IC2630 TC4066BFN
1IN
1OUT
2OUT
2IN
CONT2
CONT3
VSS
VCC
CONT1
CONT4
4IN
4OUT
3OUT
3IN
GNDA1
C2649 0.01
C2650 0.01
V+7A
V-7A
R2625 2.4k
R2627 56
R2629 3.3k
R2631 0
R2633 2.2k
C2633 100p CH
IC2632 (1/2) BA4560RF
C2636 0.01
V-12A
V+12A
C2635 0.01
R2635 100
C2637 10/50
R2637 47k
R2638 47k
DAN217 D2504
DAN217 D2505
R2628 56
R2630 3.3k
R2626 2.4k
R2632 0
R2634 2.2k
C2634 100p CH
R2636 100
C2638 10/50
IC2632 (2/2) BA4560RF
AWQ7041 ONLY
TC4053BFN IC2631
VDD
YCOM
XCOM
1X
0X
A
B
C
1Y
0Y
1Z
ZCOM
0Z
INH
VEE
VSS
C2651 0.01
C2652 0.01
R2692 47k
R2691 47k
R2690 47k
Q2633 RT1N241M
Q2630 RT1N241M
Q2632 RT1N241M
Q2645 RT1P241M
Q2631 RT1N241M
R2689 47k
AWQ7046 ONLY
R2659 0
R2660 0
D_FL 2-C2
D_FR 2-C2
K 2/4
EXTC
DSPC
LSSN
MEXOE
TRGON1
TRGON2
VMUTE1
Z2VMUTE1
V+5_6U
R2601 47K
D2519
IC2640 TC4094BFN
VDD
OE
12TRG1
12TRG2
MVMUTE
Z2VMUTE
QS'
QS
STB
DATA
CLOCK
NECK6
NECK8
RDS RST
iP POWER
VSS
C2621 0.01 YB
GNDU
Q2639 RT1P241M
Q2640 RT1P241M
MEXST
MEXDT
MEXCLK
RDSRST
IPPOWER
NECK6
NECK8
MEXCLK
MEXDT
MEXOE
MEXST
AMUTE
MUTE_MRSB
IPDET
OSDDT
OSDCS
OSDRST
12VDET
MRIN1
MRIN2
T_CE
T_DI
T_DO
T_CLK
RDSDT
RDSCK
RXD
TXD
RMC
SROUT
SRIN
C2623 0.1/16
CN2504 XKP3077-
V+5.6US
V+5.6US
GNDU
GNDU
EXP/OSDCLK
EXP/OSDDT
EXPOE
EXPST
AMUTE
MUTE MR/SB
iP DET
ODSDT
ODSCS
CN2507 CKS1760-
OSDRST
12VDET
MRIN1
MRIN2
T CE
T DI
T DO
T CLK
RDS DT
RDS CK
SR RX
SR TX
RMC
SROUT
SRIN
GNDSR
4-D3 MEXCLK
4-D3 MEXDT
4-D3 OSDDT
4-D3 OSDRST
4-D3 OSDCS
4-D2 Z2VMUTE1
4-D2 VMUTE1
4-D3 TRGON2
4-D3 TRGON1
K 4/4
2-B6 AMUTE
2-B6 MUTE_MRSB
2-B6 NECK6
2-B6 NECK8
2-B6 IPDET
K 2/4
E CN5431
E CN5433
K F 1/4

SW DOWN MIX SELECT

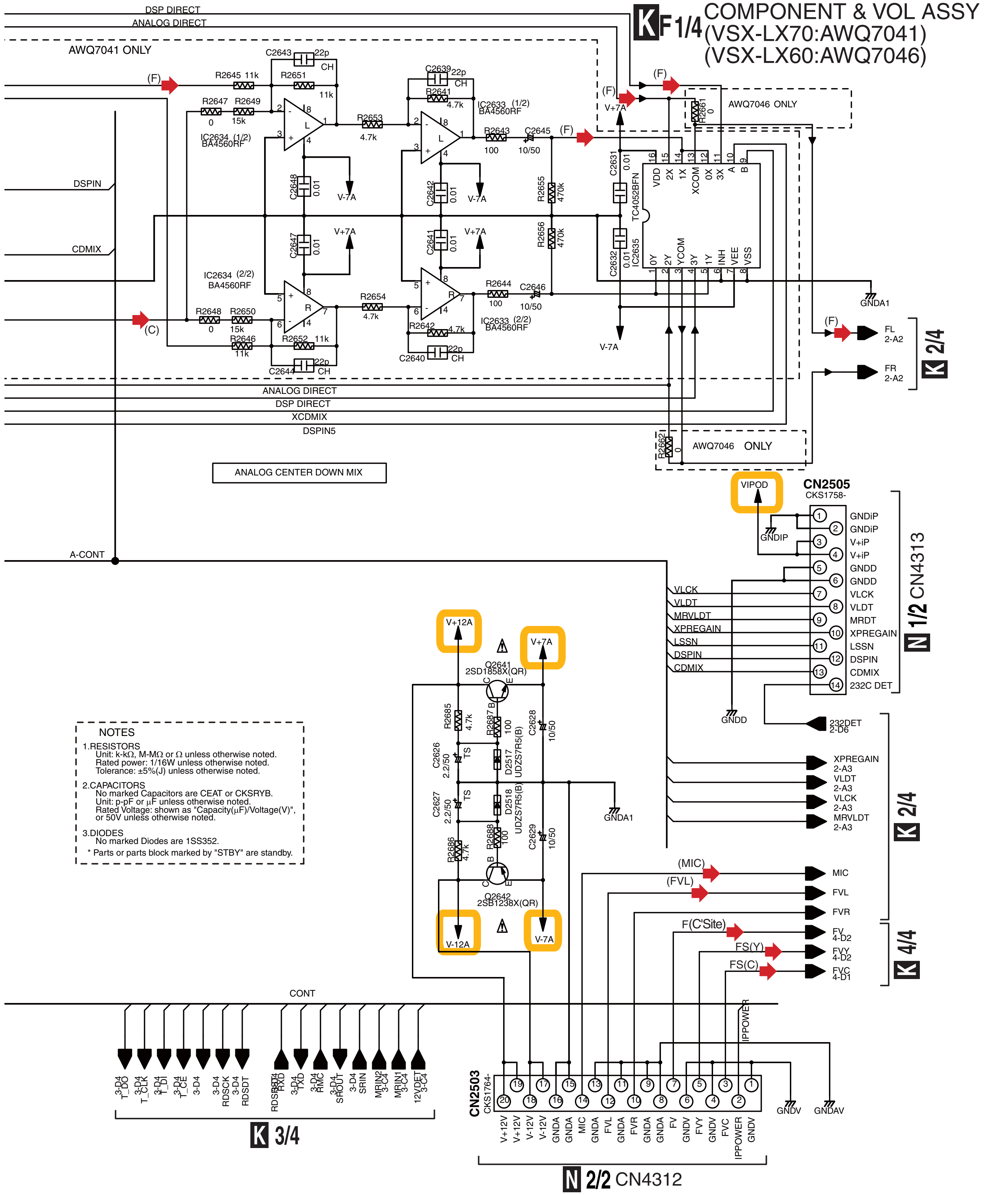
XLSSN	L	H
IC2630[CONT]	H	L
SW DOWNMIX	ON	OFF

CENTER DOWN MIX SELECT

CDMIX	DSPIN	IC2631				IC2635		SELECT
		A	B	C	INH	A	B	
L	H	H	H	H	H	H	H	DSP Direct
L	L	L	L	L	H	L	H	Analog Direct
H	H	H	H	H	L	H	L	DSP Downmix
H	L	L	L	L	L	L	L	Analog Downmix

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

K F 1/4 COMPONENT & VOL ASSY
(VSX-LX70:AWQ7041)
(VSX-LX60:AWQ7046)

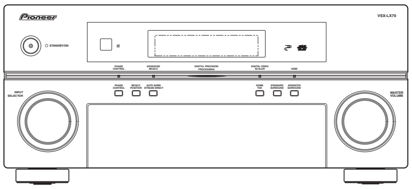

A
B
C
D
E
DSP DIRECT
ANALOG DIRECT
AWQ7041 ONLY
(F)
(C)
R2645 11k
R2651 11k
C2643 22p CH
R2647 0
R2649 15k
IC2634 (1/2) BA4560RF
IC2634 (2/2) BA4560RF
R2653 4.7k
R2654 4.7k
C2639 22p CH
R2641 4.7k
IC2633 (1/2) BA4560RF
IC2633 (2/2) BA4560RF
R2643 100
C2645 10/50
R2644 100
C2646 10/50
C2648 0.01
C2647 0.01
C2642 0.01
C2641 0.01
V-7A
V+7A
DSPIN
CDMIX
R2648 0
R2650 15k
R2646 11k
R2652 11k
C2644 22p CH
R2642 4.7k
C2640 22p CH
R2655 470k
R2656 470k
C2631 0.01
C2632 0.01
IC2635 TC4052BFN
VDD 2X 1X XCOM 0X 3X A B
0Y 2Y YCOM 3Y 1Y INH VEE VSS
R2661 0
AWQ7046 ONLY
GNDA1
FL 2-A2
FR 2-A2
K 2/4
ANALOG DIRECT
DSP DIRECT
XCDMIX
DSPIN5
R2662 0
AWQ7046 ONLY
ANALOG CENTER DOWN MIX
A-CONT
VIPOD
GNDIP
CN2505
CKS1758-
1 GNDiP
2 GNDiP
3 V+iP
4 V+iP
5 GNDD
6 GNDD
7 VLCK
8 VLDT
9 MRDT
10 XPREGAIN
11 LSSN
12 DSPIN
13 CDMIX
14 232C DET
N 1/2 CN4313
VLCK
VLDT
MRVLDT
XPREGAIN
LSSN
DSPIN
CDMIX
GNDD
232DET 2-D6
XPREGAIN 2-A3
VLDT 2-A3
VLCK 2-A3
MRVLDT 2-A3
K 2/4
V+12A
V+7A
Q2641 2SD1858X(QR)
R2685 4.7k
R2687 100
C2628 10/50
C2626 2.2/50 TS
D2517 UDZS7R5(B)
C2627 2.2/50 TS
D2518 UDZS7R5(B)
GNDA1
R2686 4.7k
R2688 100
C2629 10/50
Q2642 2SB1238X(QR)
V-12A
V-7A
(MIC)
(FVL)
F(C'Site)
FS(Y)
FS(C)
MIC
FVL
FVR
FV 4-D2
FVY 4-D2
FVC 4-D1
K 4/4
CONT
IPPOWER
3-D4 T_DO
3-D4 T_CLK
3-D4 T_DI
3-D4 T_CE
3-D4
3-D4 RDSCK
3-D4 RDSDT
RDSRDT 3-D4 RXD
3-D4 TXD
3-D4 RMC
3-D4 SROUT
3-D4 SRIN
MRIN2 3-C4
MRIN1 3-C4
12VDET 3-C4
K 3/4
CN2503
CKS1764-
20 V+12V
19 V+12V
18 V-12V
17 V-12V
16 GNDA
15 GNDA
14 MIC
13 GNDA
12 FVL
11 GNDA
10 FVR
9 GNDA
8 GNDA
7 FV
6 GNDV
5 FVY
4 GNDV
3 FVC
2 IPPOWER
1 GNDV
GNDV
GNDAV
N 2/2 CN4312

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS352.
* Parts or parts block marked by "STBY" are standby.

(F) ➡ : AUDIO SIGNAL ROUTE(F)
(C) ➡ : AUDIO SIGNAL ROUTE(C)
(SW) ➡ : AUDIO SIGNAL ROUTE(SW)
(MIC) ➡ : AUDIO SIGNAL ROUTE(MIC)
(FVL) ➡ : AUDIO SIGNAL ROUTE(VIDEO2)
F(C'Site) ➡ : VIDEO SIGNAL ROUTE F(C'Site)
FS(C) ➡ : VIDEO SIGNAL ROUTE FS(C)
FS(Y) ➡ : VIDEO SIGNAL ROUTE FS(Y)

Pioneer sound.vision.soul

Service Manual



VSX-LX70

ORDER NO.
RRV3653

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-LX70

VSX-LX60

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	The voltage can be converted by the following method.
VSX-LX70	HYXJ5	AC 220 V to 230 V	AC240V,*
VSX-LX60	HYXJ5	AC 220 V to 230 V	AC240V,*

***:Alter the wiring of the power-supply block at the primary winding of Power transformer referring to the Line Voltage Selection described in this Service Manual (“11.18 TRANS1 and PRIMARY ASSYS”).**

For details, refer to "Important Check Points for good servicing".

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T-FZV AUG. 2007 printed in Japan

SAFETY INFORMATION

!

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

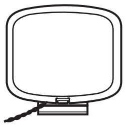
Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

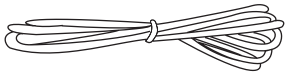
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS

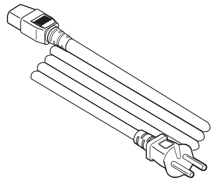
2.1 ACCESSORIES



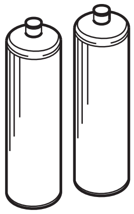
AM Loop Antenna
(ATB7013)



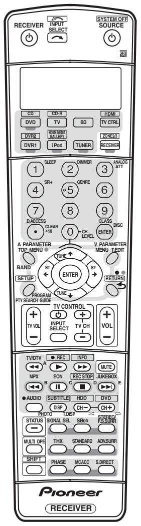
FM Wire Antenna
(ADH7030)



AC Power Cord
(ADG7062)

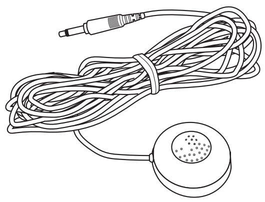


AA/IEC R6P Dry Cell Batteries
(VEM1031)



RECEIVER
INPUT SELECT
SYSTEM OFF
SOURCE
DVD
TV
BD
TV CTRL
DVR1
iPod
TUNER
RECEIVER
ENTER
TV CONTROL
VOL
MUTE
STATUS
THX
STANDARD
SHIFT
PHASE
MCACC
S.DIRECT
Pioneer
RECEIVER

Remote Control Unit
(VSX-LX70 : AXD7505)
(VSX-LX60 : AXD7502)



Setup Microphone
(for Auto MCACC setup)
(APM7008)

2.2 SPECIFICATIONS

Amplifier Section

Continuous Power Output (Stereo)

Front	180 W + 180 W (LX70), 170 W + 170 W (LX60) (DIN 1 kHz, THD 1 %, 6 Ω)
Front	150 W + 150 W (LX70), 140 W + 140 W (LX60) (DIN 1 kHz, THD 1 %, 8 Ω)

Continuous Power Output (Multichannel)
(DIN 1 kHz, THD 1 %, 6 Ω)

Front	180 W + 180 W (LX70), 170 W + 170 W (LX60)
Center	180 W (LX70), 170 W (LX60)
Surround	180 W + 180 W (LX70) 170 W + 170 W (LX60)
Surround back	180 W + 180 W (LX70) 170 W + 170 W (LX60)

(DIN 1 kHz, THD 1 %, 8 Ω)

Front	150 W + 150 W (LX70), 140 W + 140 W (LX60)
Center	150 W (LX70), 140 W (LX60)
Surround	150 W + 150 W (LX70) 140 W + 140 W (LX60)
Surround back	150 W + 150 W (LX70) 140 W + 140 W (LX60)

Rated Power Output – Stereo (20 Hz to 20 kHz, 0.09 %, 8 Ω)
.... 140 W+140 W (LX70), 130 W+130 W (LX60)

- The above specifications are applicable when the power supply is 230V.

Audio Section

Input (Sensitivity/Impedance)

LINE	335 mV/47 kΩ
Frequency Response (LINE)	5 Hz to 100 000 Hz $^{+0}_{-3}$ dB

Output (Level/Impedance)

REC	335 mV/2.2 kΩ

Tone Control

BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+4 dB/+2 dB (100 Hz/10 kHz) (at volume position –40 dB)

Signal-to-Noise Ratio (IHF, short circuited, A network)

LINE	103 dB

Signal-to-Noise Ratio
[DIN (continuous rated power output/50 mW)]

LINE	92 dB/65 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 100 MHz

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 15.2 dBf, IHF (1.6 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 41.2 dBf
Sensitivity (DIN)	Mono: 1.1 μV (S/N 26 dB) Stereo: 50 μV (S/N 46 dB)
Signal-to-Noise Ratio	Mono: 76 dB (at 85 dBf) Stereo: 72 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN)	Mono: 62 dB Stereo: 58 dB
Distortion	Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity	70 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz ± 1dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	531 kHz to 1602 kHz (9 kHz step)
Sensitivity (IHF, Loop antenna)	350 μV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 220 V to 230 V, 50 Hz/60 Hz
Power Consumption	460 W
In standby	0.6 W (HDMI Control OFF) 0.8 W (HDMI Control ON)
AC Outlet	(switched) 100 W/0.4 A MAX.
Dimensions	420 (W) mm x 187 (H) mm x 459 (D) mm
Weight (without package)	17.0 kg

Furnished Parts

Setup microphone (for Auto MCACC setup)	1
AA/IEC R6P dry cell batteries	2
Remote control unit	1
AM loop antenna	1
FM wire antenna	1
Power cord	1
Warranty card	1

Operating instructions
Operating instructions for HOME MEDIA GALLERY
(VSX-LX70 only)

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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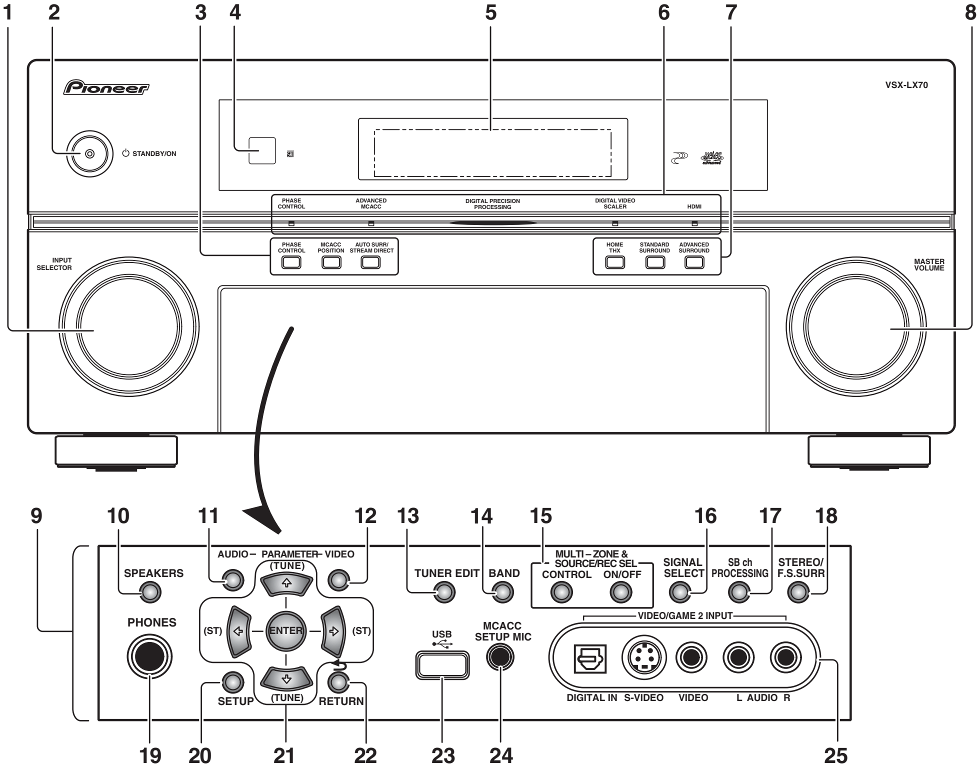
2.3 PANEL FACILITIES

● Front Panel

Illustration shows the VSX-LX70 front panel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Pioneer
VSX-LX70
STANDBY/ON
PHASE CONTROL
ADVANCED MCACC
DIGITAL PRECISION PROCESSING
DIGITAL VIDEO SCALER
HDMI
PHASE CONTROL
MCACC POSITION
AUTO SURR/ STREAM DIRECT
HOME THX
STANDARD SURROUND
ADVANCED SURROUND
INPUT SELECTOR
MASTER VOLUME
9
10
11
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13
14
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16
17
18
SPEAKERS
AUDIO – PARAMETER – VIDEO
(TUNE)
(ST)
ENTER
(ST)
TUNER EDIT
BAND
MULTI – ZONE & SOURCE/REC SEL
CONTROL
ON/OFF
SIGNAL SELECT
SB ch PROCESSING
STEREO/ F.S.SURR
PHONES
USB
MCACC SETUP MIC
VIDEO/GAME 2 INPUT
SETUP
(TUNE)
RETURN
DIGITAL IN
S-VIDEO
VIDEO
L AUDIO R
19
20
21
22
23
24
25

1 INPUT SELECTOR dial
Use to select an input source.

2 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 PHASE CONTROL – Press to switch on/off Phase Control or Full Band Phase Control.

MCACC POSITION – Press to switch between MCACC presets.

AUTO SURR/STREAM DIRECT – Press to select Auto Surround or Stream Direct listening.

4 Remote sensor
Receives the signals from the remote control.

5 Character display

6 PHASE CONTROL indicator – Lights to indicate Phase Control or Full Band Phase Control is selected.

ADVANCED MCACC indicator – Lights when one of the MCACC presets is selected.[1]

Digital Precision Processing indicator – Lights to indicate digital processing (for example, it disappears when Pure Direct is on, or when listening through the multichannel analog inputs).

Note

[1] The MCACC indicator does not light when the MCACC preset memory currently being selected has not been corrected with Acoustic Calibration EQ Professional or when **EQ** is set to **OFF** in the Audio parameter menu.

DIGITAL VIDEO SCALER indicator – Lights when Resolution is set to a setting other than **PURE** (for example, when the video input signal is upscaled).

HDMI indicator – Blinks when connecting an HDMI-equipped component; lights when the component is connected.

7 Listening mode buttons

HOME THX – Press to select a Home THX listening mode.

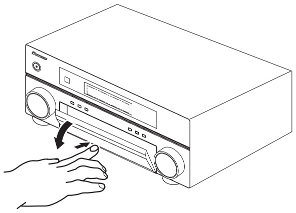
STANDARD SURROUND – Press for Standard decoding and to switch between the various ꟿ Pro Logic IIx and Neo:6 options.

ADVANCED SURROUND – Use to switch between the various surround modes.

8 MASTER VOLUME dial

9 Front panel controls

To access the front panel controls, push gently on the lower third portion of the panel with your finger.



10 SPEAKERS

Use to change the speaker system.

11 AUDIO PARAMETER

Use to access the Audio options.

12 VIDEO PARAMETER

Use to access the Video options.

13 TUNER EDIT

Use with ⬅/➡ to memorize and name stations for recall.

14 BAND

Switches between AM and FM radio bands.

15 MULTI-ZONE & SOURCE/REC SEL controls

If you've made MULTI-ZONE connections use these controls to control the sub zone from the main zone. You will also need to use the **REC SEL** controls when recording a source.

16 SIGNAL SELECT

Use to select an input signal.

17 SBch PROCESSING

Selects the surround back channel mode or virtual surround back mode .

18 STEREO/F.S.SURR

Switches between the stereo playback mode and the Front Stage Surround Advance mode.

19 PHONES jack

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

20 SETUP

Press to access the System Setup menu.

21 ⬆/⬇/⬅/➡ (TUNE/ST) /ENTER

Use the arrow buttons when setting up your surround sound system. Use the **TUNE** ⬆/⬇ buttons to find radio frequencies and use **ST** ⬅/➡ to find preset stations.

22 RETURN

Press to confirm and exit the current menu screen.

23 USB interface

Connect a USB audio device for playback.

24 MCACC SETUP MIC jack

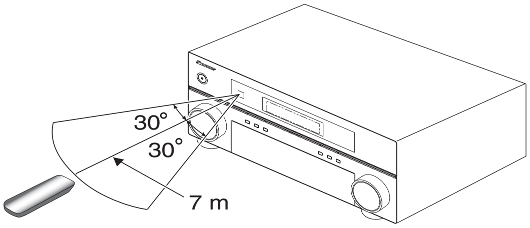
Use to connect the supplied microphone.

25 VIDEO/GAME 2 INPUT

Operating range of remote control unit

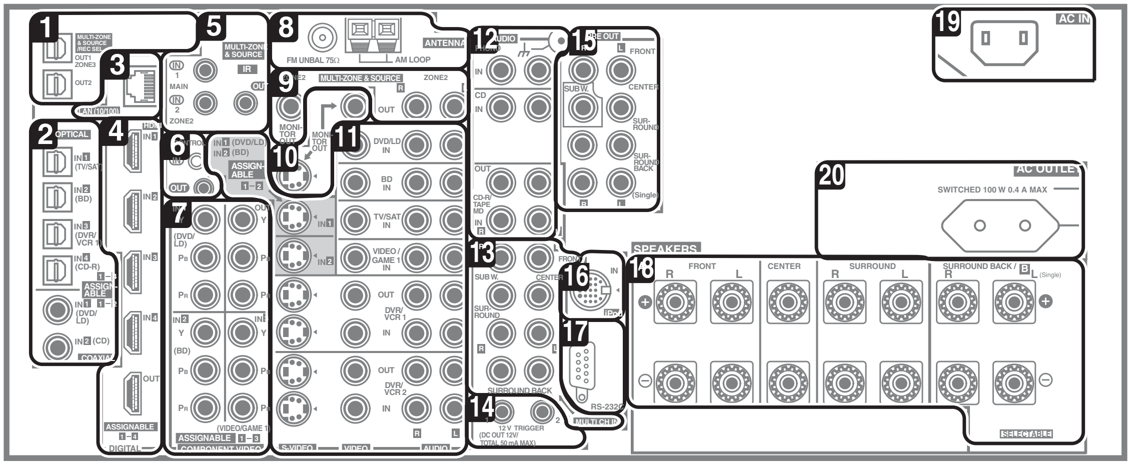
The remote control may not work properly if:

- There are obstacles between the remote control and the receiver's remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver is located near a device that is emitting infrared rays.
- The receiver is operated simultaneously with another infrared remote control unit.



Rear Panel

This illustration shows the VSX-LX70, however connections for the VSX-LX60 are the same except where noted.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MULTI-ZONE & SOURCE
OPTICAL
COAXIAL
LAN (10/100)
HDMI
DIGITAL
ASSIGNABLE
COMPONENT VIDEO
FM UNBAL 75Ω
AM LOOP
ANTENNA
MULTI-ZONE & SOURCE
ZONE2
MONITOR OUT
DVD/LD IN
BD IN
TV/SAT IN
VIDEO / GAME 1 IN
DVR/VCR 1
DVR/VCR 2
S-VIDEO
VIDEO
AUDIO
CD IN
CD-R/TAPE/MD
PRE OUT
FRONT
CENTER
SUB W.
SURROUND
SURROUND BACK
MULTI CH IN
12 V TRIGGER (DC OUT 12V/ TOTAL 50 mA MAX)
iPod
RS-232C
SPEAKERS
SELECTABLE
AC OUTLET
SWITCHED 100 W 0.4 A MAX
AC IN

Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 Optical digital audio output(s)
Use the **OUT1** and (VSX-LX70 only) **OUT2** jack for recording to a CD or MiniDisc recorder.
The **OUT1** jack is also used for MULTI-ZONE connections.

2 Optical and coaxial digital audio inputs (x6)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

3 LAN (10/100) terminal (VSX-LX70 only)

4 HDMI connectors (x4) (VSX-LX60) **(x5)** (VSX-LX70)
Multiple inputs and one output for high-quality audio/video connection to compatible HDMI devices.

5 Remote inputs (MULTI-ZONE and source)
Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

6 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

7 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.

8 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.

9 MULTI-ZONE and source outputs
Use to connect a second amplifier in a separate room.

10 Composite and S-video monitor outputs
Use to connect monitors and TVs.

11 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-video[1] and stereo analog audio.

12 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

13 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

14 12 V trigger jacks (total 50 mA max.) **(x2)**
Use to switch components in your system on and off according to the input function of the receiver.

15 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for center, surround, surround back and subwoofer channels.

16 iPod input terminal
Use to connect your Apple iPod as an audio or video source.

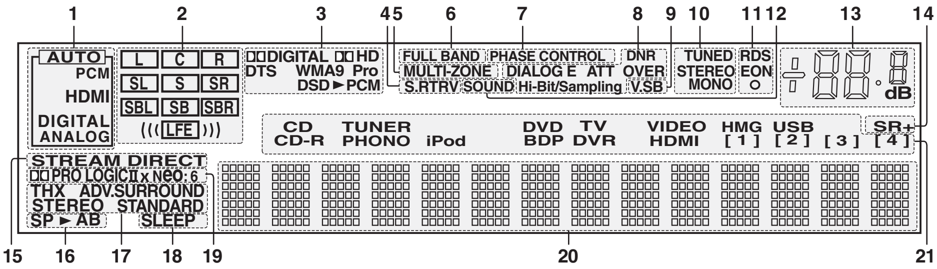
17 RS-232C connector
Use for connection to a PC for graphical output when using Advanced MCACC or Full Band Phase Control.

18 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

19 AC IN inlet
Connect the supplied power cord here.

20 Switched AC power outlet (100 W/0.4 A max.)
Use to power another component in the system. Power to the outlet switches on and off with the receiver.

Display


1
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3
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12
13
14
AUTO
PCM
HDMI
DIGITAL
ANALOG
L C R
SL S SR
SBL SB SBR
(((LFE)))
□□DIGITAL □□HD
DTS WMA9 Pro
DSD►PCM
FULL BAND
MULTI-ZONE
S.RTRV
PHASE CONTROL
DIALOG E
ATT
SOUND
Hi-Bit/Sampling
DNR
OVER
V.SB
TUNED
STEREO
MONO
RDS
EON
○
dB
CD
CD-R
TUNER
PHONO
iPod
DVD
BDP
TV
DVR
VIDEO
HDMI
HMG
[1]
USB
[2]
[3]
SR+
[4]
STREAM DIRECT
□□PRO LOGIC II x NEO:6
THX
ADV.SURROUND
STEREO
STANDARD
SP ► AB
SLEEP
15
16
17
18
19
20
21

1 SIGNAL indicators
Light to indicate the currently selected input signal. **AUTO** lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.

L – Left front channel
C – Center channel
R – Right front channel
SL – Left surround channel
S – Surround channel (mono)
SR – Right surround channel
SBL – Left surround back channel
SB – Surround back channel (mono)
SBR – Right surround back channel
LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected (**DSD►PCM** lights during DSD (Digital Stream Direct) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on.

5 MULTI-ZONE
Lights when the MULTI-ZONE feature is active.

6 FULL BAND
Lights when the Full Band Phase Control is switched on.

7 PHASE CONTROL
Lights when the Phase Control or Full Band Phase Control is switched on.

8 Sound processing indicators
Light according to the active Audio parameter(s) and/or **ANALOG ATT**.

9 V.SB
Lights during Virtual surround back processing.

10 TUNER indicators

TUNED – Lights when a broadcast is being received.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO – Lights when the mono mode is set using the **MPX** button.

11 EON/RDS indicators

EON – Lights when the EON mode is set (flashes during EON reception). The ○ indicator lights when the current station carries the EON service.

RDS – Lights when an RDS broadcast is received.

12 SOUND
Lights when any of the Midnight, Loudness or tone controls feature is selected.

13 Master volume level
Shows the overall volume level. **–80dB** indicates the minimum level, and **+12dB** indicates the maximum level.

14 SR+
Lights when the SR+ mode is switched on.

15 STREAM DIRECT
Lights when Direct/Pure Direct is selected.

16 Speaker indicators
Lights to indicate the current speaker system, A and/or B.

17 Listening mode indicators

THX – Lights when one of the Home THX modes is selected.

ADV.SURROUND – Lights when one of the Advanced Surround modes has been selected.

STEREO – Lights when stereo listening is switched on.

STANDARD – Lights when one of the Standard Surround modes is switched on.

18 SLEEP
Lights when the receiver is in sleep mode.

19 Matrix decoding format indicators

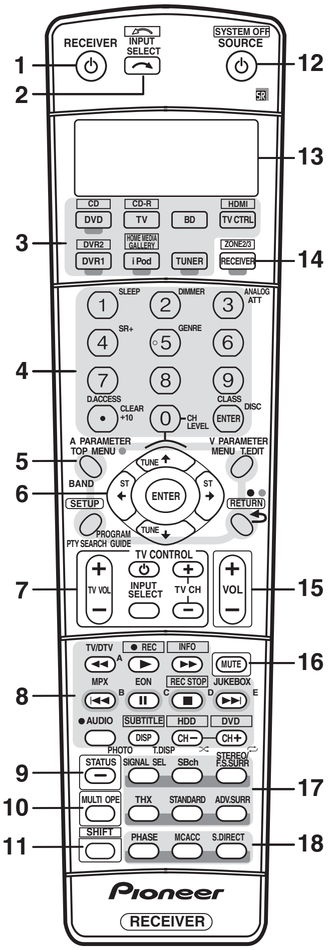
□□ PRO LOGIC IIx – This lights to indicate □□ Pro Logic II /□□ Pro Logic IIx decoding.
Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

20 Character display
Displays various system information.

21 Input source indicators
Light to indicate the input source you have selected.

● Remote Control

Illustration shows the VSX-LX70 remote control


RECEIVER
INPUT SELECT
SYSTEM OFF
SOURCE
SR
CD
CD-R
HDMI
DVD
TV
BD
TV CTRL
DVR2
HOME MEDIA GALLERY
ZONE2/3
DVR1
iPod
TUNER
RECEIVER
SLEEP
DIMMER
ANALOG ATT
SR+
GENRE
D.ACCESS
CLASS
CLEAR
+10
CH LEVEL
DISC
ENTER
A PARAMETER
TOP MENU
V PARAMETER
MENU T.EDIT
BAND
TUNE
ST
ENTER
SETUP
RETURN
PROGRAM
PTY SEARCH GUIDE
TV CONTROL
TV VOL
INPUT SELECT
TV CH
VOL
TV/DTV
● REC
INFO
MUTE
MPX
EON
REC STOP
JUKEBOX
● AUDIO
SUBTITLE
HDD
DVD
DISP
CH−
CH+
PHOTO
T.DISP
STATUS
SIGNAL SEL
SBch
STEREO/F.S.SURR
MULTI OPE
THX
STANDARD
ADV.SURR
SHIFT
PHASE
MCACC
S.DIRECT
Pioneer
RECEIVER
1
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18

The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **Green** – Receiver controls (see below)
- **Red** – DVD controls
- **Blue** – Tuner controls
- **Yellow** – iPod controls
- **White** – Other controls

1 RECEIVER⏻
This switches between standby and on for this receiver.

2 INPUT SELECT
Use to select the input source (use **SHIFT** for **INPUT SELECT**).

3 Input source buttons
Press to select control of other components.

4 Number buttons and other receiver/component controls
Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.

Press **RECEIVER** first to access:

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.

DIMMER – Dims or brightens the display.

ANALOG ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.

SR+ – Switches the SR+ mode on/off.

GENRE – Automatically selects the most appropriate Advanced Surround mode for the genre of the source currently being played back (this feature is available only when a Pioneer DVD recorder supporting HDMI Control is connected to this receiver via HDMI).

CH LEVEL – Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.

Press**TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

5 Tuner/component control buttons/SETUP
These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**,**TV**, etc.). The **BAND**,**T.EDIT** and **PTY SEARCH** tuner controls. Press **RECEIVER** first to access the following controls:

A PARAMETER – Use to access the Audio options.

V PARAMETER – Use to access the Video options.

SETUP – Use to access the System Setup menu.

RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬆/⬇/⬅/➡ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your surround sound system and the Audio or Video options.
Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE ⬆/⬇** buttons to find radio frequencies and use **ST ⬅/➡** to find preset stations.

7 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.

TV⏻ – Use to turn on/off the power of the TV.

TV VOL +/– – Use to adjust the volume on your TV.

INPUT SELECT – Use to select the TV input signal.

TV CH +/– – Use to select channels.

8 Component control buttons
The main buttons (►,■, etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**,**DVR1** or **TV**). The following controls can be accessed when listening to the built-in tuner:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

DISP – Switches between named station presets and radio frequencies. Also used to display RDS information.

EON – Use to search for programs that are broadcasting traffic or news information.

9 STATUS
Press to check selected receiver settings.

10 MULTI OPE
Use this button to perform multi operations.

11 SHIFT
Press to access the controls outlined in white boxes (for example, **INPUT SELECT**▭), or to display the currently selected input source in the remote control LCD.

12 SOURCE⏻
Press to turn on/off other components connected to the receiver.

13 Character display (LCD)
This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components:

SETUP – Indicates the setup mode, from which you choose the options below.

PRESET

LEARNING

MULTI OP

SYS OFF

DIRECT F

RENAME

ERASE

RESET

READ ID

14 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**ANALOG ATT**, etc.)). Also use this button to set up surround sound. With **SHIFT**, this selects the MULTI-ZONE control, shown in the display as **RCV/Z2**, **RCV/Z3** .

15 VOL +/–
Use to set the listening volume.

16 MUTE
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

17 Receiver controls
SIGNAL SEL – Use to select an input signal.

SBch – Use to select the surround/virtual back channel mode.

STEREO/F.S.SURR – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

THX – Press to select a Home THX listening mode.

STANDARD – Press for Standard decoding and to switch between the various ᗡᗞ Pro Logic IIx and Neo:6 options.

ADV.SURR – Use to switch between the various surround modes.

18 PHASE – Press to switch on/off Phase Control or Full Band Phase Control.
MCACC – Press to switch between MCACC presets

S.DIRECT – Press to select Auto Surround or Stream Direct listening.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

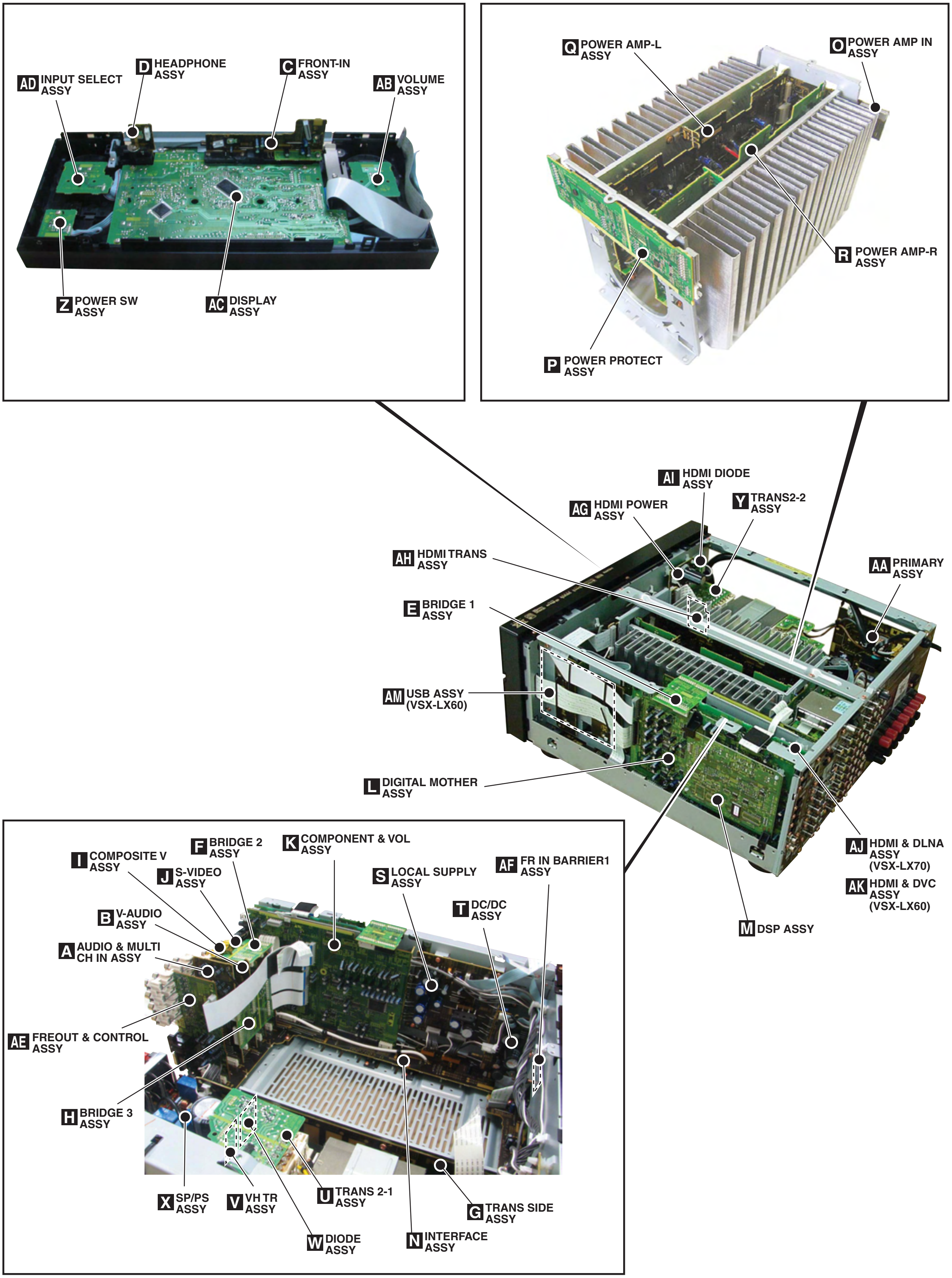
To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedure	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio:

Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

3.2 PCB LOCATIONS


AD INPUT SELECT ASSY
D HEADPHONE ASSY
C FRONT-IN ASSY
AB VOLUME ASSY
Z POWER SW ASSY
AC DISPLAY ASSY
Q POWER AMP-L ASSY
O POWER AMP IN ASSY
R POWER AMP-R ASSY
P POWER PROTECT ASSY
AI HDMI DIODE ASSY
AG HDMI POWER ASSY
Y TRANS2-2 ASSY
AH HDMI TRANS ASSY
AA PRIMARY ASSY
E BRIDGE 1 ASSY
AM USB ASSY (VSX-LX60)
L DIGITAL MOTHER ASSY
AJ HDMI & DLNA ASSY (VSX-LX70)
AK HDMI & DVC ASSY (VSX-LX60)
M DSP ASSY
I COMPOSITE V ASSY
F BRIDGE 2 ASSY
K COMPONENT & VOL ASSY
J S-VIDEO ASSY
S LOCAL SUPPLY ASSY
AF FR IN BARRIER1 ASSY
B V-AUDIO ASSY
T DC/DC ASSY
A AUDIO & MULTI CH IN ASSY
AE FREOUT & CONTROL ASSY
H BRIDGE 3 ASSY
X SP/PS ASSY
V VH TR ASSY
U TRANS 2-1 ASSY
G TRANS SIDE ASSY
W DIODE ASSY
N INTERFACE ASSY

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

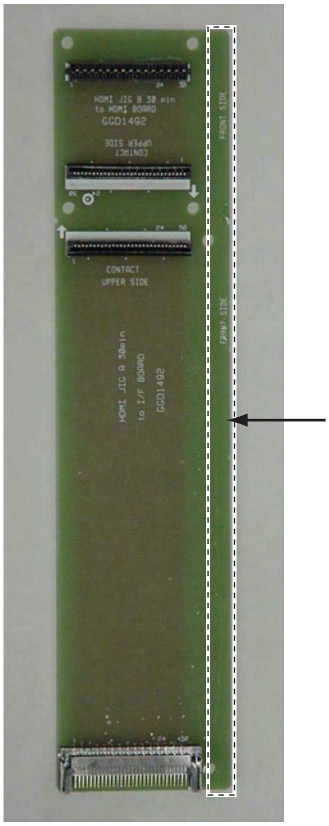
◆ LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-LX70 /HYXJ5	VSX-LX60 /HYXJ5
NSP	1..POWER AMP ASSY	AWH7012	AWH7012
	2..POWER AMP-L ASSY	AWX8655	AWX8655
	2..POWER AMP-R ASSY	AWX8657	AWX8657
	2..POWER PROTECT ASSY	AWX8659	AWX8659
	2..POWER AMP IN ASSY	AWX8662	AWX8662
NSP	1..COMPLEX ASSY	AWM8082	AWM8087
	2..TRANS 2-2 ASSY	AWX8891	AWX8891
	2..PRIMARY ASSY	AWX8895	AWX8895
NSP	2..FFC GUARD (FRONT) ASSY	AWX8899	AWX8899
	2..DISPLAY ASSY	AWX8900	AWX8900
	2..FRONT-IN ASSY	AWX8902	AWX8904
	2..HEADPHONE ASSY	AWX8905	AWX8905
	2..INPUT SELECT ASSY	AWX8906	AWX8906
	2..VOLUME ASSY	AWX8907	AWX8907
	2..POWER SW ASSY	AWX8908	AWX8908
	1..DIGITAL MOTHER ASSY	AWP7047	AWP7053
NSP	1..VIDEO ASSY	AWQ7056	AWQ7056
	2..COMPOSITE V ASSY	AWX8972	AWX8972
	2..S VIDEO ASSY	AWX8973	AWX8973
	2..PREOUT & CONTROL ASSY	AWX8889	AWX8889
NSP	2..FR IN BARRIER1 ASSY	AWX8948	AWX8948
	1..COMPONENT & VOL ASSY	AWQ7042	AWQ7047
NSP	1..SECONDARY ASSY	AWR7054	AWR7058
	2..SP/PS ASSY	AWX8910	AWX8912
	2..TRANS 2-1 ASSY	AWX8914	AWX8914
NSP	2..DIODE ASSY	AWX8915	AWX8915
	2..VH TR ASSY	AWX8916	AWX8916
	2..DC/DC ASSY	AWX8917	AWX8918
	2..INTERFACE ASSY	AWX8949	AWX8941
NSP	2..TRANS SIDE ASSY	AWX8921	AWX8921
NSP	1..AUDIO ASSY	AWR7062	AWR7065
	2..LOCAL SUPPLY ASSY	AWX8924	AWX8924
	2..AUDIO & MULTI CH IN ASSY	AWX8927	AWX8927
	2..V-AUDIO ASSY	AWX8931	AWX8931
NSP	2..HDMI POWER ASSY	AWX8933	AWX8933
NSP	2..BRIDGE 1 ASSY	AWX8934	AWX8934
NSP	2..BRIDGE 2 ASSY	AWX8935	AWX8935
NSP	2..BRIDGE 3 ASSY	AWX8936	AWX8936
NSP	2..FFC GUARD (SIDE) ASSY	AWX8937	AWX8938
	2..HDMI TRANS ASSY	AWX8939	AWX8939
	2..HDMI DIODE ASSY	AWX8940	AWX8940
	1..DSP ASSY	AWX8869	AWX8869
	1..HDMI & DLNA ASSY	AWX8974	Not used
	1..HDMI & DVC ASSY	Not used	AWX8975
	1..USB ASSY	Not used	AWX8944
	1..FM/AM TUNER MODULE	AXX7248	AXX7248

3.3 JIGS LIST

■ Jigs list

Name	Jig No.	Remarks
Audio control cable for iPod	XDE7025	Check of iPod
30pin board to board extension cable	GGD1492 (x2)	Diagnosis of HDMI & DLNA Assy
7-pin FFC	VDA1681	Diagnosis of the Network block of HDMI & DLNA Assy
22-pin FFC	GGD1387	Diagnosis of the Network block of HDMI & DLNA Assy


HDMI JIG B 30 pin
to HDMI BOARD
GGD1492
CONTACT
UPPER SIDE
CONTACT
UPPER SIDE
HDMI JIG A 30pin
to I/F BOARD
GGD1492
FRONT SIDE
FRONT SIDE

Before using GGD1492, it is necessary to cut this part.

■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

A

B

C

D

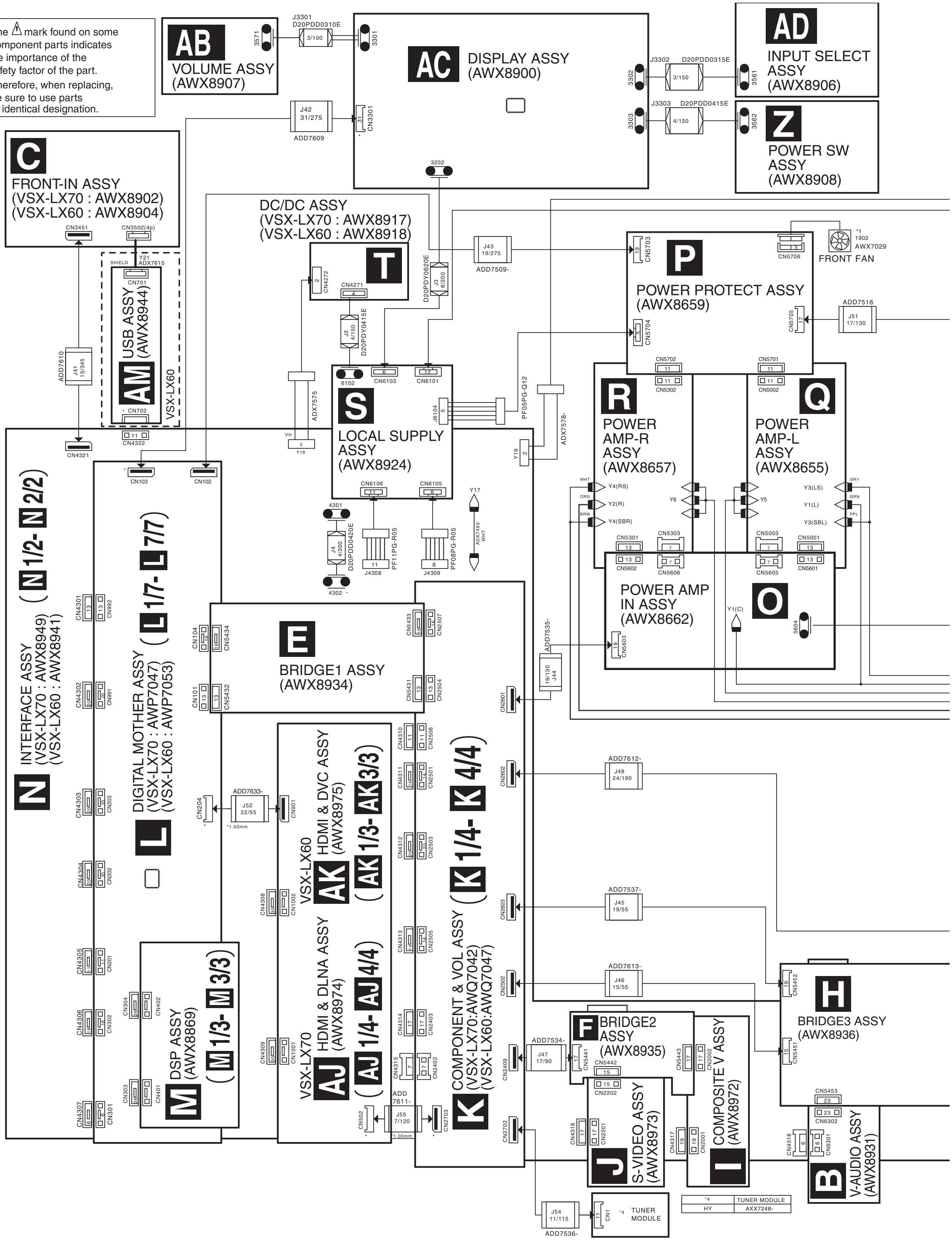
E

F

4. BLOCK DIAGRAM

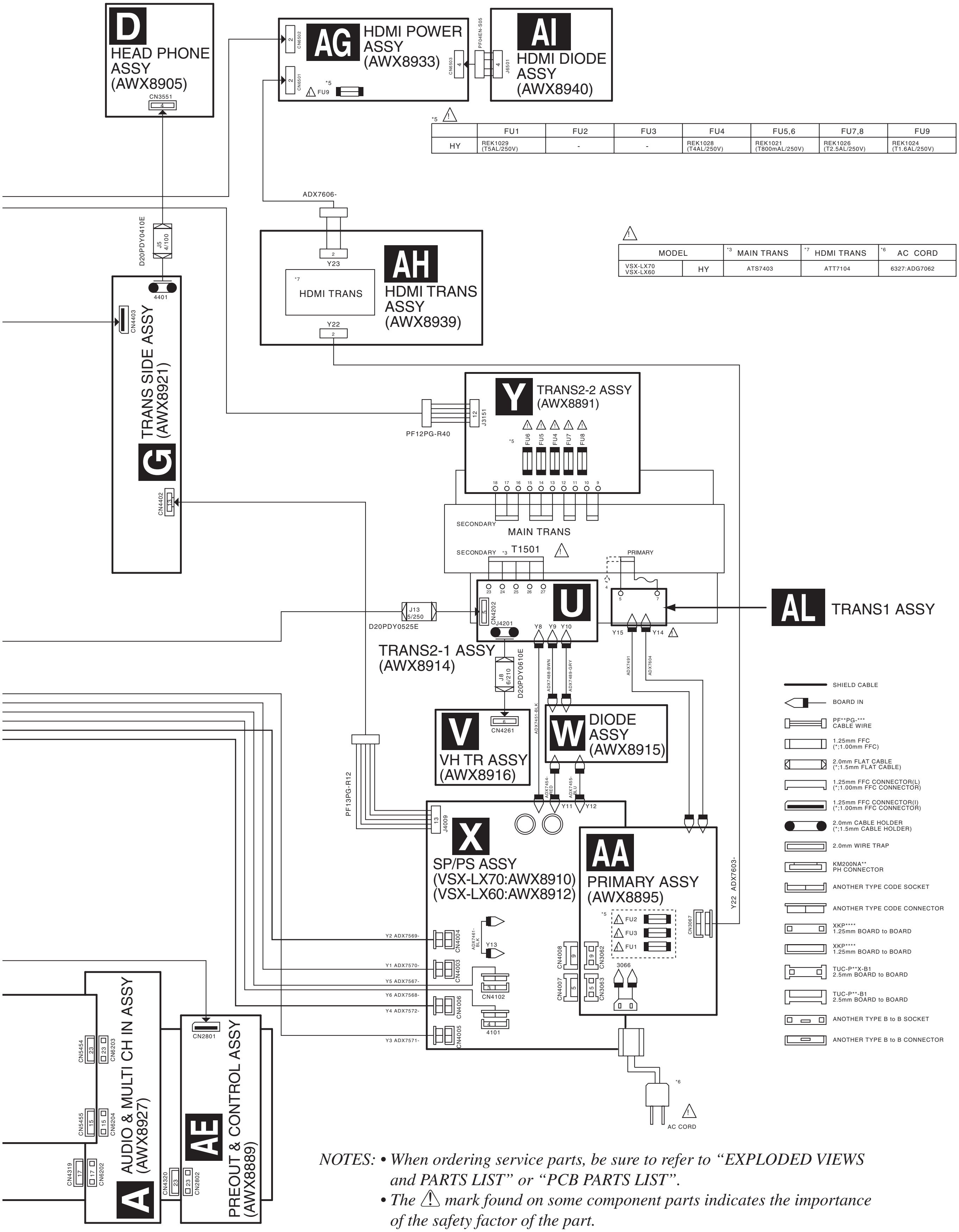
4.1 OVERALL WIRING DIAGRAM

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



AB
VOLUME ASSY
(AWX8907)
3571
J3301
D20PDD0310E
3/100
3301
AC
DISPLAY ASSY
(AWX8900)
3302
J3302
D20PDD0315E
3/150
3561
AD
INPUT SELECT ASSY
(AWX8906)
3303
J3303
D20PDD0415E
4/150
3562
Z
POWER SW ASSY
(AWX8908)
J42
31/275
ADD7609
CN3301
31
3202
C
FRONT-IN ASSY
(VSX-LX70 : AWX8902)
(VSX-LX60 : AWX8904)
CN3451
CN3502(4p)
Y21
ADX7615
SHIELD
CN701
AM
USB ASSY
(AWX8944)
VSX-LX60
CN702
ADD7610
J41
15/345
DC/DC ASSY
(VSX-LX70 : AWX8917)
(VSX-LX60 : AWX8918)
T
CN4272
CN4271
J2
4/150
D20PDY0415E
J3
6/200
D20PDY0620E
J43
19/275
ADD7509-
P
POWER PROTECT ASSY
(AWX8659)
CN5703
CN5706
*1
1902
AWX7029
FRONT FAN
CN5704
CN5705
ADD7516
J51
17/130
CN5702
CN5701
S
LOCAL SUPPLY ASSY
(AWX8924)
6102
CN6103
CN6101
J6104
PF05PG-Q12
ADX7578-
ADX7575
VH
Y18
Y19
CN6106
CN6105
4301
J4
4/200
D20PDD0420E
4302
J4308
PF11PG-R05
J4309
PF08PG-R05
Y17
ADX7493-WHT
R
POWER AMP-R ASSY
(AWX8657)
CN5302
Q
POWER AMP-L ASSY
(AWX8655)
CN5002
WHT
Y4(RS)
ORG
Y2(R)
BRW
Y4(SBR)
Y6
Y5
GRY
Y3(LS)
GRN
Y1(L)
PPL
Y3(SBL)
CN5301
CN5303
CN5003
CN5001
CN5602
CN5606
CN5605
CN5601
O
POWER AMP IN ASSY
(AWX8662)
Y1(C)
5604
ADD7535-
J44
19/130
CN5603
CN4321
CN4322
N
INTERFACE ASSY
(VSX-LX70 : AWX8949)
(VSX-LX60 : AWX8941)
(N 1/2- N 2/2)
CN103
CN102
L
DIGITAL MOTHER ASSY
(VSX-LX70 : AWP7047)
(VSX-LX60 : AWP7053)
(L 1/7- L 7/7)
CN4301
CN992
CN4302
CN991
CN4303
CN203
CN4304
CN202
CN4305
CN201
CN4306
CN302
CN4307
CN301
E
BRIDGE1 ASSY
(AWX8934)
CN104
CN5434
CN101
CN5432
CN5433
CN2507
CN5431
CN2504
CN204
ADD7633-
J52
22/55
*1.00mm
CN901
AK
VSX-LX60
HDMI & DVC ASSY
(AWX8975)
(AK 1/3- AK 3/3)
CN4308
CN1002
AJ
VSX-LX70
HDMI & DLNA ASSY
(AWX8974)
(AJ 1/4- AJ 4/4)
CN4309
CN1001
M
DSP ASSY
(AWX8869)
(M 1/3- M 3/3)
CN304
CN402
CN303
CN401
CN4310
CN2506
CN4311
CN2501
CN4312
CN2503
CN4313
CN2505
CN4314
CN2403
CN4315
CN2402
ADD7611-
J55
7/120
*1.00mm
CN502
CN2703
K
COMPONENT & VOL ASSY
(VSX-LX70:AWQ7042)
(VSX-LX60:AWQ7047)
(K 1/4- K 4/4)
CN2601
CN2602
ADD7612-
J48
24/190
CN2603
ADD7537-
J45
19/55
CN2502
ADD7613-
J46
15/55
CN2409
ADD7534-
J47
17/90
CN2702
J54
11/115
ADD7536-
CN1
*4
TUNER MODULE
F
BRIDGE2 ASSY
(AWX8935)
CN5441
CN5442
CN5443
CN2202
CN2002
I
COMPOSITE V ASSY
(AWX8972)
CN4317
CN2001
J
S-VIDEO ASSY
(AWX8973)
CN4316
CN2201
H
BRIDGE3 ASSY
(AWX8936)
CN5452
CN5451
CN5453
CN6302
B
V-AUDIO ASSY
(AWX8931)
CN4318
CN6301

*4	TUNER MODULE
HY	AXX7248-


D
HEAD PHONE ASSY (AWX8905)
CN3551
4
AG
HDMI POWER ASSY (AWX8933)
CN6502
CN6501
CN6503
*5
FU9
PF04EN-S05
J6501
AI
HDMI DIODE ASSY (AWX8940)
D20PDY0410E
J5
4/100
ADX7606-
2
Y23
*7
HDMI TRANS
Y22
AH
HDMI TRANS ASSY (AWX8939)
4401
CN4403
G
TRANS SIDE ASSY (AWX8921)
CN4402
Y
TRANS2-2 ASSY (AWX8891)
J3151
12
PF12PG-R40
FU6
FU5
FU4
FU7
FU8
SECONDARY
MAIN TRANS
SECONDARY *3
T1501
PRIMARY
U
CN4202
J4201
Y8 Y9 Y10
J13
5/250
D20PDY0525E
TRANS2-1 ASSY (AWX8914)
J8
6/210
D20PDY0610E
AL
TRANS1 ASSY
Y15 Y14
ADX7491
ADX7604
ADX7488-BWN
ADX7489-GRY
ADX7451-BLK
V
CN4261
VH TR ASSY (AWX8916)
W
DIODE ASSY (AWX8915)
ADX7454-RED
ADX7455-BLU
Y11 Y12
PF13PG-R12
J4009
13
X
SP/PS ASSY (VSX-LX70:AWX8910) (VSX-LX60:AWX8912)
Y2 ADX7569-
Y1 ADX7570-
Y5 ADX7567-
Y6 ADX7568-
Y4 ADX7572-
Y3 ADX7571-
CN4004
CN4003
CN4006
CN4005
ADX7461-BLK
Y13
CN4102
4101
CN4008
CN4007
AA
PRIMARY ASSY (AWX8895)
*5
FU2
FU3
FU1
CN3067
CN3062
CN3063
3066
Y22 ADX7603-
*6
AC CORD
A
AUDIO & MULTI CH IN ASSY (AWX8927)
CN5454
CN6203
CN5455
CN6204
CN4319
CN6202
AE
PREOUT & CONTROL ASSY (AWX8889)
CN2801
CN4320
CN2802
SHIELD CABLE
BOARD IN
PF**PG-*** CABLE WIRE
1.25mm FFC (*;1.00mm FFC)
2.0mm FLAT CABLE (*;1.5mm FLAT CABLE)
1.25mm FFC CONNECTOR(L) (*;1.00mm FFC CONNECTOR)
1.25mm FFC CONNECTOR(I) (*;1.00mm FFC CONNECTOR)
2.0mm CABLE HOLDER (*;1.5mm CABLE HOLDER)
2.0mm WIRE TRAP
KM200NA** PH CONNECTOR
ANOTHER TYPE CODE SOCKET
ANOTHER TYPE CODE CONNECTOR
XKP**** 1.25mm BOARD to BOARD
XKP**** 1.25mm BOARD to BOARD
TUC-P**X-B1 2.5mm BOARD to BOARD
TUC-P**-B1 2.5mm BOARD to BOARD
ANOTHER TYPE B to B SOCKET
ANOTHER TYPE B to B CONNECTOR

*5 ⚠

	FU1	FU2	FU3	FU4	FU5,6	FU7,8	FU9
HY	REK1029 (T5AL/250V)	-	-	REK1028 (T4AL/250V)	REK1021 (T800mAL/250V)	REK1026 (T2.5AL/250V)	REK1024 (T1.6AL/250V)

⚠

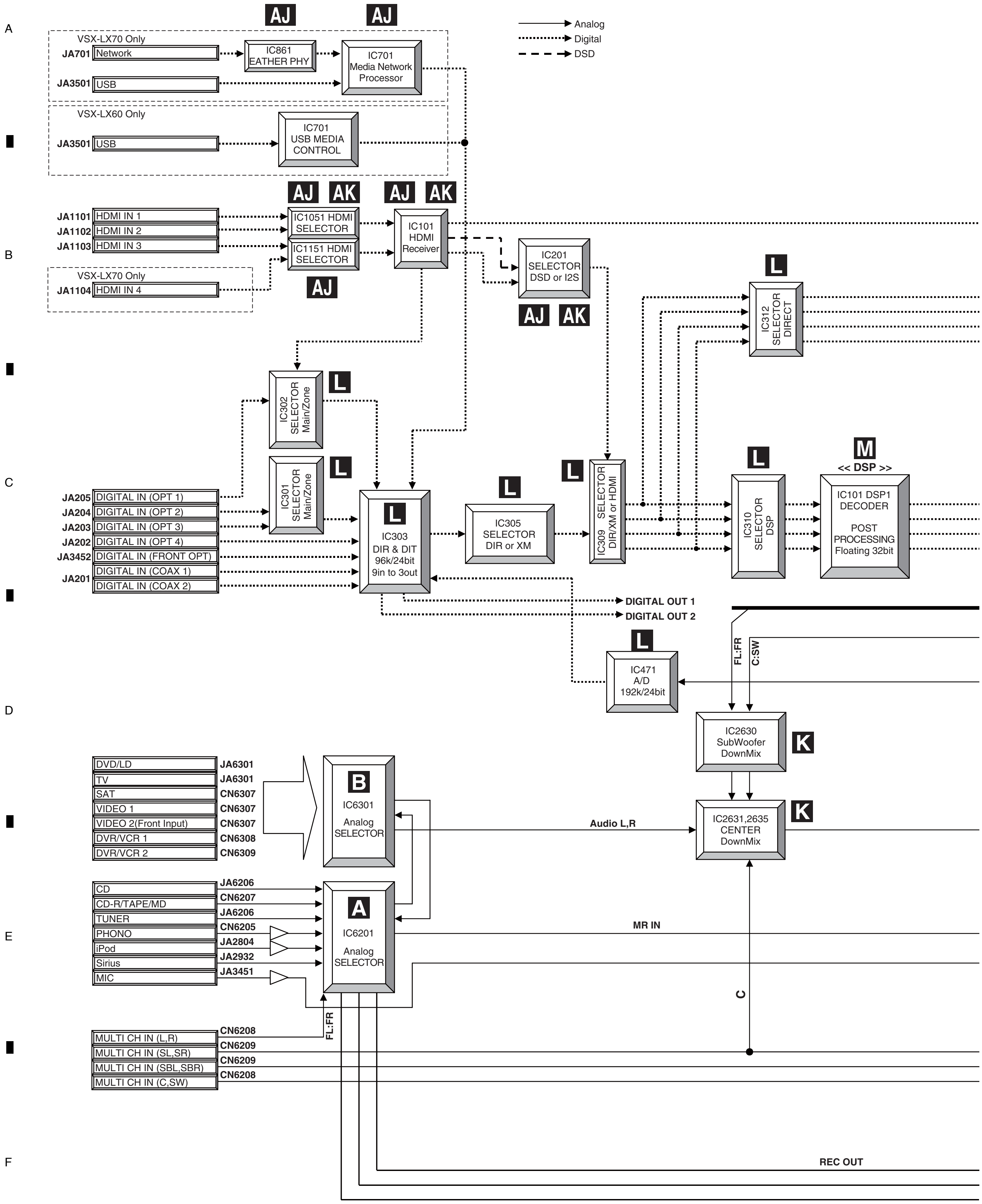
MODEL		*3 MAIN TRANS	*7 HDMI TRANS	*6 AC CORD
VSX-LX70 VSX-LX60	HY	ATS7403	ATT7104	6327:ADG7062

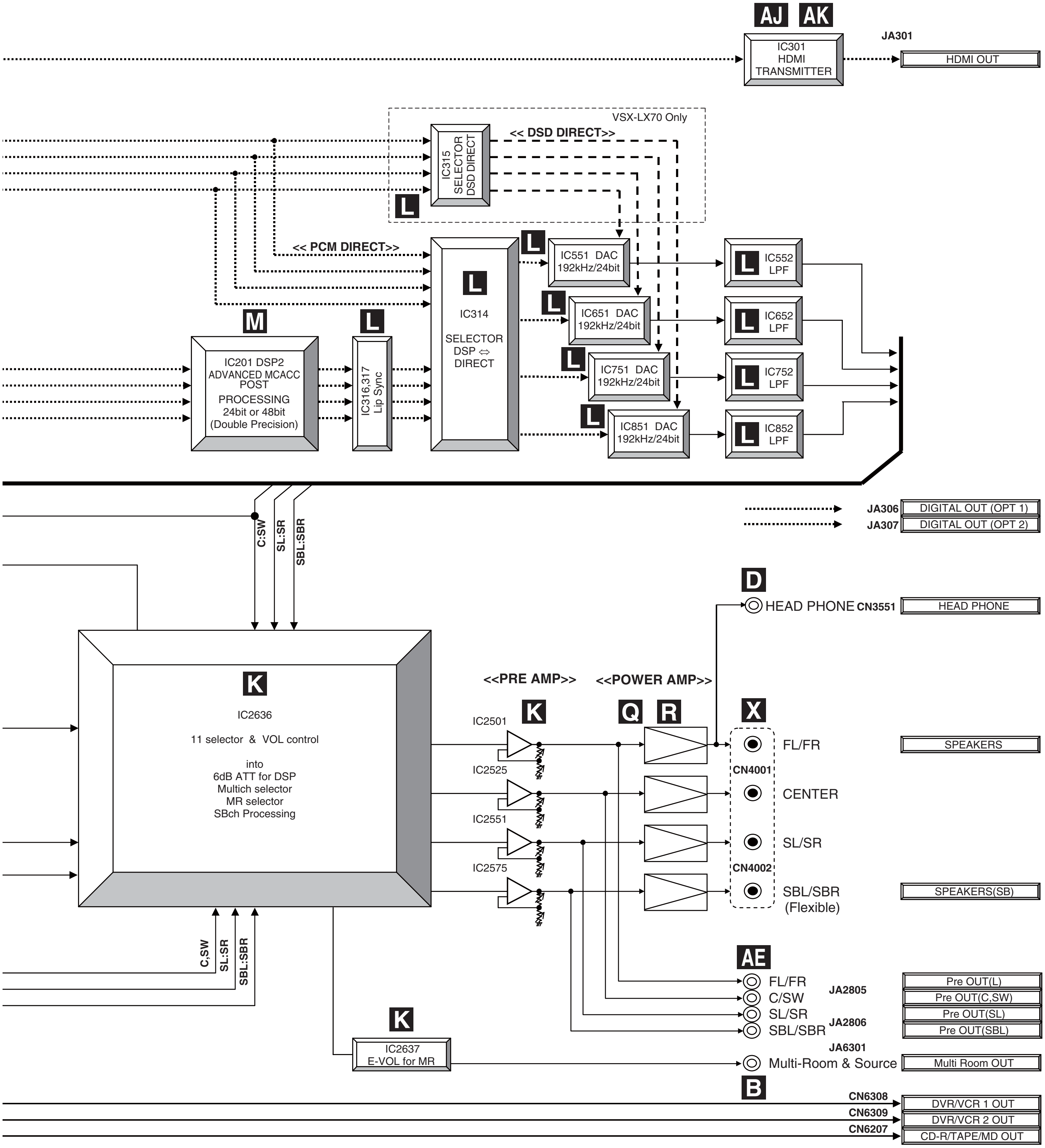
NOTES: • When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

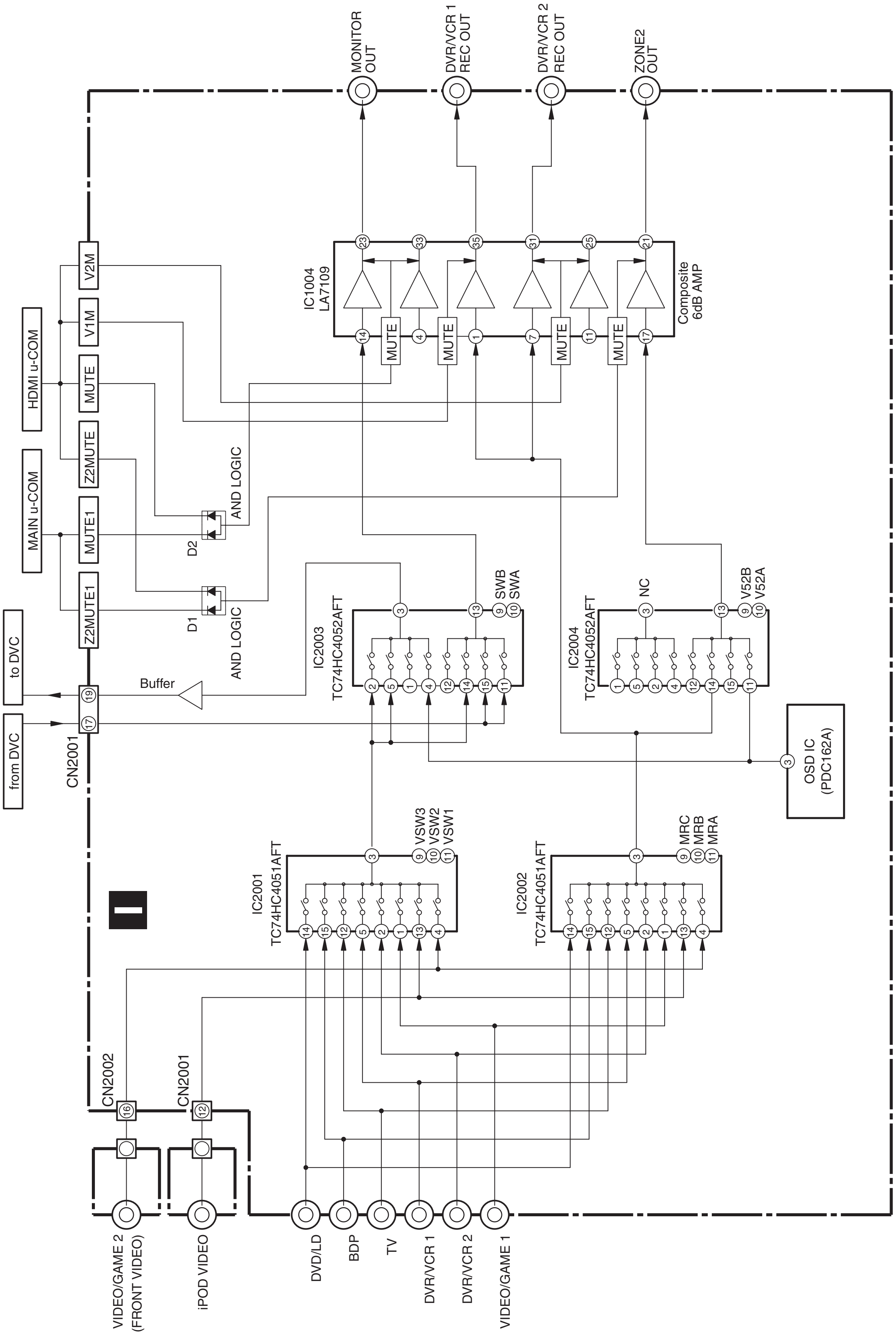
• ⬭ : The power supply is shown with the marked box.

4.2 AUDIO BLOCK DIAGRAM

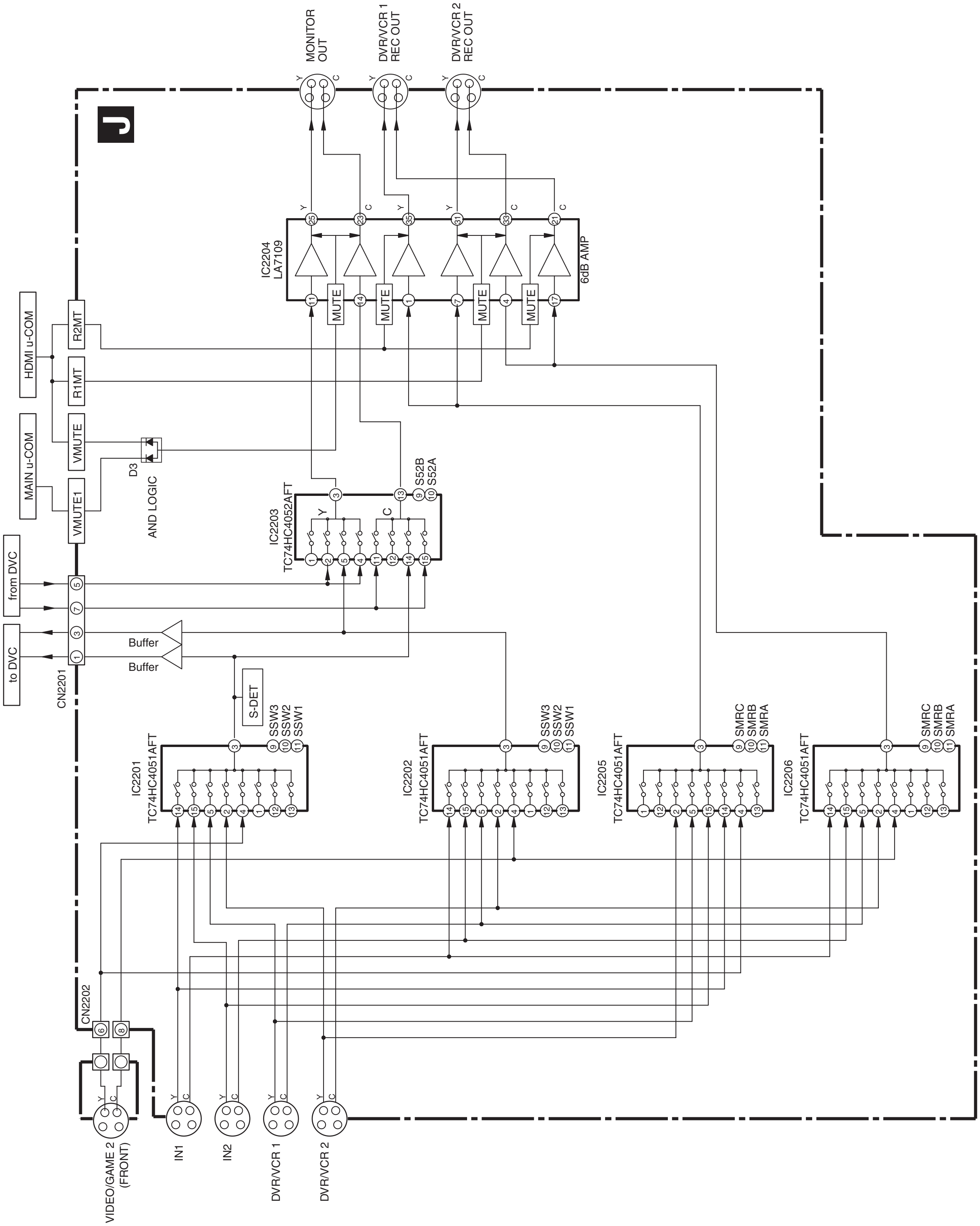

A
B
C
D
E
F
Analog
Digital
DSD
AJ
AJ
VSX-LX70 Only
JA701 Network
JA3501 USB
IC861 EATHER PHY
IC701 Media Network Processor
VSX-LX60 Only
JA3501 USB
IC701 USB MEDIA CONTROL
AJ AK
AJ AK
JA1101 HDMI IN 1
JA1102 HDMI IN 2
JA1103 HDMI IN 3
IC1051 HDMI SELECTOR
IC1151 HDMI SELECTOR
IC101 HDMI Receiver
VSX-LX70 Only
JA1104 HDMI IN 4
AJ
IC201 SELECTOR DSD or I2S
AJ AK
L
IC312 SELECTOR DIRECT
IC302 SELECTOR Main/Zone
L
IC301 SELECTOR Main/Zone
L
JA205 DIGITAL IN (OPT 1)
JA204 DIGITAL IN (OPT 2)
JA203 DIGITAL IN (OPT 3)
JA202 DIGITAL IN (OPT 4)
JA3452 DIGITAL IN (FRONT OPT)
JA201 DIGITAL IN (COAX 1)
DIGITAL IN (COAX 2)
L
IC303 DIR & DIT 96k/24bit 9in to 3out
L
IC305 SELECTOR DIR or XM
L
IC309 SELECTOR DIR/XM or HDMI
L
IC310 SELECTOR DSP
M
<< DSP >>
IC101 DSP1 DECODER
POST PROCESSING Floating 32bit
DIGITAL OUT 1
DIGITAL OUT 2
L
IC471 A/D 192k/24bit
FL:FR
C:SW
IC2630 SubWoofer DownMix
K
DVD/LD JA6301
TV JA6301
SAT CN6307
VIDEO 1 CN6307
VIDEO 2(Front Input) CN6307
DVR/VCR 1 CN6308
DVR/VCR 2 CN6309
B
IC6301 Analog SELECTOR
Audio L,R
IC2631,2635 CENTER DownMix
K
CD JA6206
CD-R/TAPE/MD CN6207
TUNER JA6206
PHONO CN6205
iPod JA2804
Sirius JA2932
MIC JA3451
A
IC6201 Analog SELECTOR
MR IN
C
FL:FR
MULTI CH IN (L,R) CN6208
MULTI CH IN (SL,SR) CN6209
MULTI CH IN (SBL,SBR) CN6209
MULTI CH IN (C,SW) CN6208
REC OUT


AJ
AK
IC301
HDMI
TRANSMITTER
JA301
HDMI OUT
VSX-LX70 Only
<< DSD DIRECT>>
IC315
SELECTOR
DSD DIRECT
L
<< PCM DIRECT>>
L
IC314
SELECTOR
DSP ⇔
DIRECT
L
IC551 DAC
192kHz/24bit
L
IC651 DAC
192kHz/24bit
L
IC751 DAC
192kHz/24bit
L
IC851 DAC
192kHz/24bit
L
IC552
LPF
L
IC652
LPF
L
IC752
LPF
L
IC852
LPF
M
IC201 DSP2
ADVANCED MCACC
POST
PROCESSING
24bit or 48bit
(Double Precision)
L
IC316,317
Lip Sync
JA306
DIGITAL OUT (OPT 1)
JA307
DIGITAL OUT (OPT 2)
C:SW
SL:SR
SBL:SBR
D
HEAD PHONE
CN3551
HEAD PHONE
K
IC2636
11 selector & VOL control
into
6dB ATT for DSP
Multich selector
MR selector
SBch Processing
<<PRE AMP>>
<<POWER AMP>>
K
Q
R
X
IC2501
IC2525
IC2551
IC2575
FL/FR
CN4001
CENTER
SL/SR
CN4002
SBL/SBR
(Flexible)
SPEAKERS
SPEAKERS(SB)
C,SW
SL:SR
SBL:SBR
AE
FL/FR
C/SW
SL/SR
SBL/SBR
JA2805
JA2806
Pre OUT(L)
Pre OUT(C,SW)
Pre OUT(SL)
Pre OUT(SBL)
K
IC2637
E-VOL for MR
JA6301
Multi-Room & Source
Multi Room OUT
B
CN6308
CN6309
CN6207
DVR/VCR 1 OUT
DVR/VCR 2 OUT
CD-R/TAPE/MD OUT

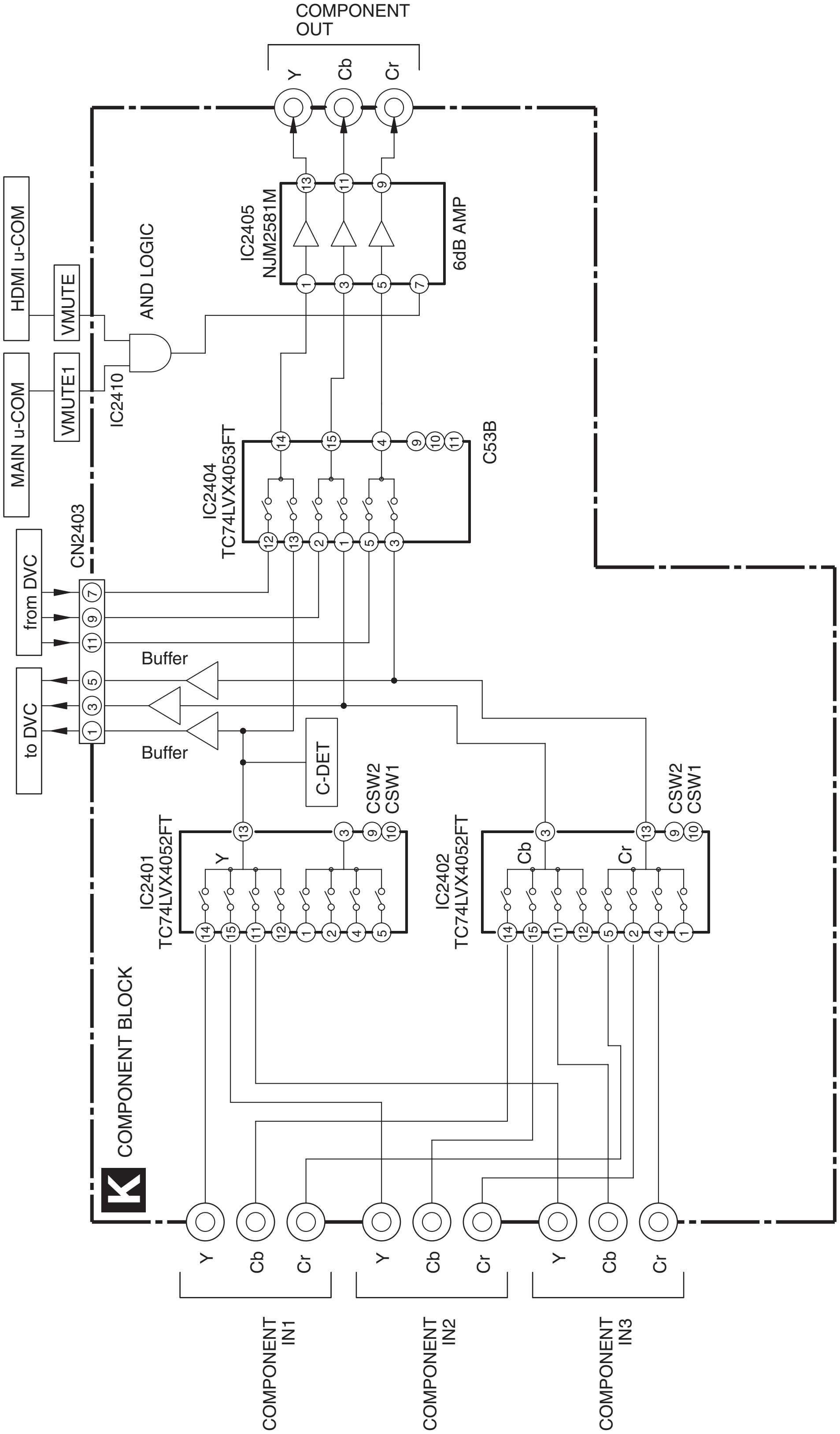
4.3 COMPOSITE V BLOCK DIAGRAM


A
B
C
D
E
F
MONITOR OUT
DVR/VCR 1 REC OUT
DVR/VCR 2 REC OUT
ZONE2 OUT
IC1004
LA7109
Composite 6dB AMP
23
33
35
31
25
21
14
4
1
7
11
17
MUTE
MUTE
MUTE
MUTE
HDMI u-COM
MAIN u-COM
V2M
V1M
MUTE
Z2MUTE
MUTE1
Z2MUTE1
AND LOGIC
D2
D1
AND LOGIC
to DVC
from DVC
Buffer
19
17
CN2001
IC2003
TC74HC4052AFT
3
13
9 SWB
10 SWA
2 5 1 4 12 14 15 11
IC2004
TC74HC4052AFT
3 NC
13
9 V52B
10 V52A
1 5 2 4 12 14 15 11
OSD IC
(PDC162A)
3
IC2001
TC74HC4051AFT
3
9 VSW3
10 VSW2
11 VSW1
14 15 12 5 2 1 13 4
IC2002
TC74HC4051AFT
3
9 MRC
10 MRB
11 MRA
14 15 12 5 2 1 13 4
CN2002
16
CN2001
12
VIDEO/GAME 2
(FRONT VIDEO)
iPOD VIDEO
DVD/LD
BDP
TV
DVR/VCR 1
DVR/VCR 2
VIDEO/GAME 1

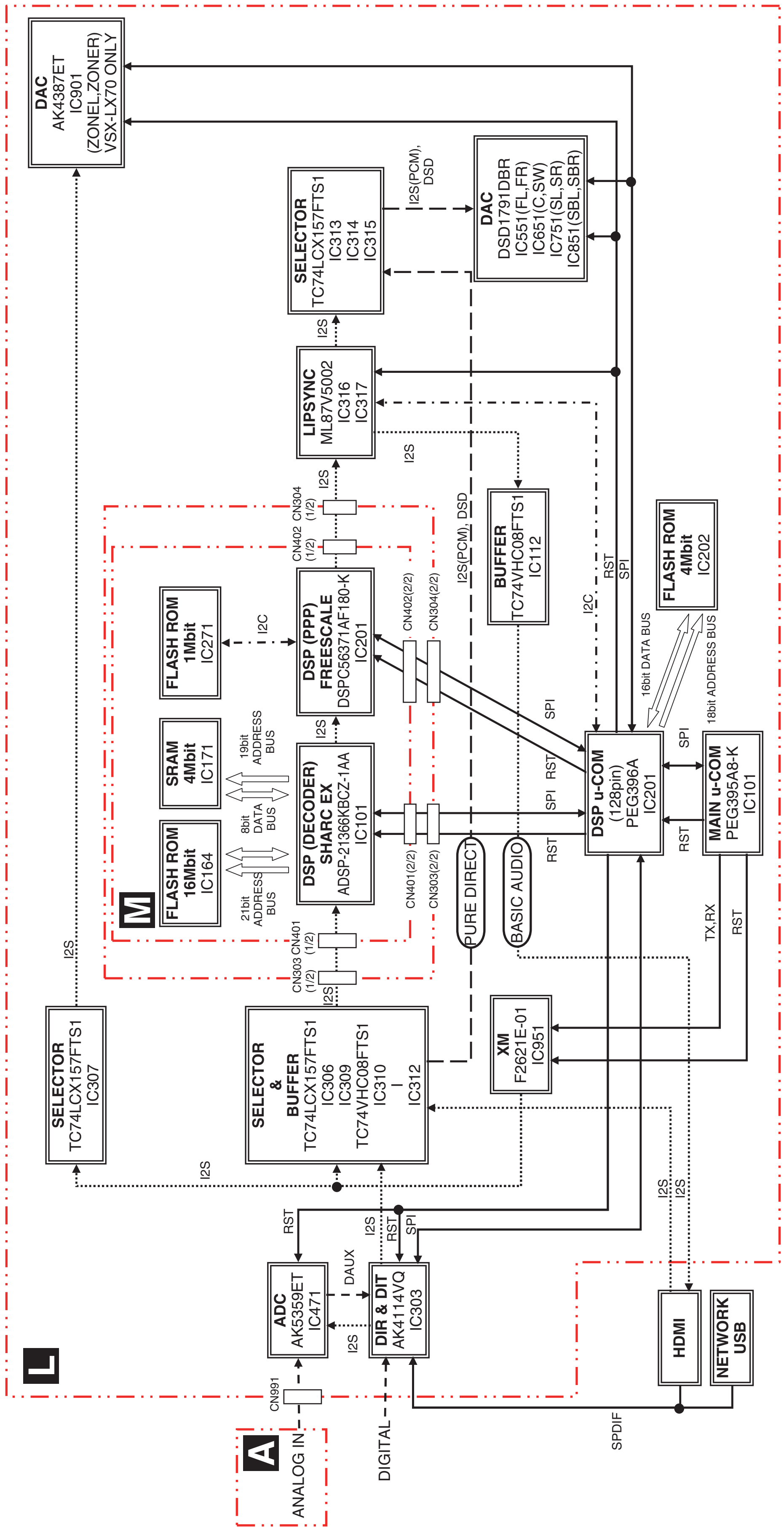
4.4 S-VIDEO BLOCK DIAGRAM


J
MONITOR OUT
DVR/VCR 1 REC OUT
DVR/VCR 2 REC OUT
Y
C
IC2204
LA7109
6dB AMP
25
23
35
31
33
21
11
14
1
7
4
17
MUTE
HDMI u-COM
MAIN u-COM
R2MT
R1MT
VMUTE
VMUTE1
D3
AND LOGIC
IC2203
TC74HC4052AFT
3
13
9
10
S52B
S52A
2
5
12
15
from DVC
to DVC
CN2201
Buffer
S-DET
IC2201
TC74HC4051AFT
SSW3
SSW2
SSW1
IC2202
TC74HC4051AFT
IC2205
TC74HC4051AFT
SMRC
SMRB
SMRA
IC2206
TC74HC4051AFT
CN2202
6
8
VIDEO/GAME 2 (FRONT)
IN1
IN2
DVR/VCR 1
DVR/VCR 2

4.5 COMPONENT & VOL BLOCK DIAGRAM

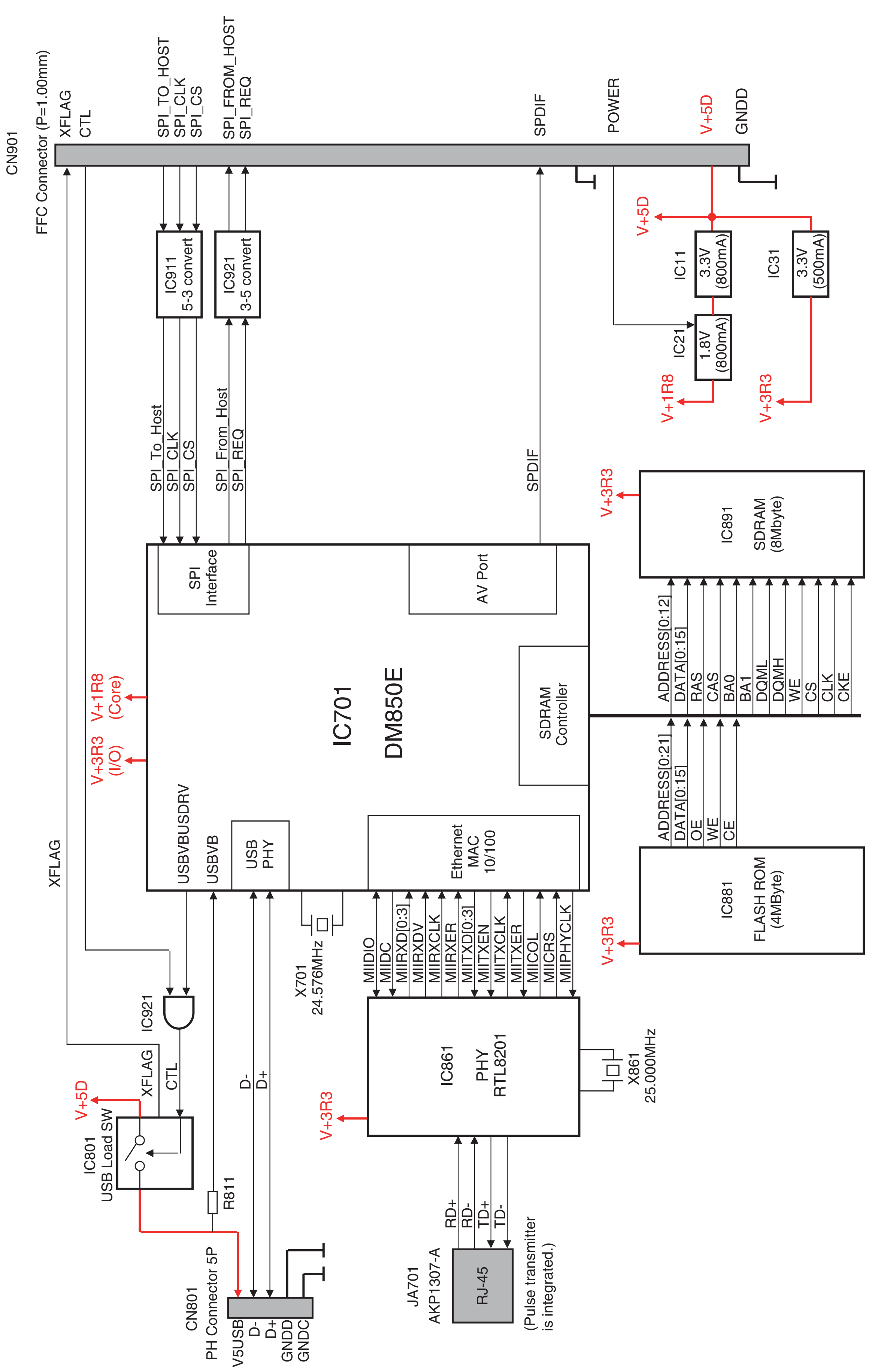

COMPONENT OUT
Y
Cb
Cr
IC2405
NJM2581M
6dB AMP
13
11
9
1
3
5
7
HDMI u-COM
VMUTE
MAIN u-COM
VMUTE1
AND LOGIC
IC2410
IC2404
TC74LVX4053FT
C53B
14
15
4
9
10
11
12
13
2
1
5
3
CN2403
from DVC
to DVC
7
9
11
5
3
1
Buffer
Buffer
C-DET
CSW2
CSW1
IC2401
TC74LVX4052FT
Y
13
3
9
10
14
15
11
12
1
2
4
5
IC2402
TC74LVX4052FT
Cb
Cr
3
13
9
10
CSW2
CSW1
14
15
11
12
5
2
4
1
COMPONENT BLOCK
K
Y
Cb
Cr
Y
Cb
Cr
Y
Cb
Cr
COMPONENT IN1
COMPONENT IN2
COMPONENT IN3

4.6 DSP BLOCK DIAGRAM

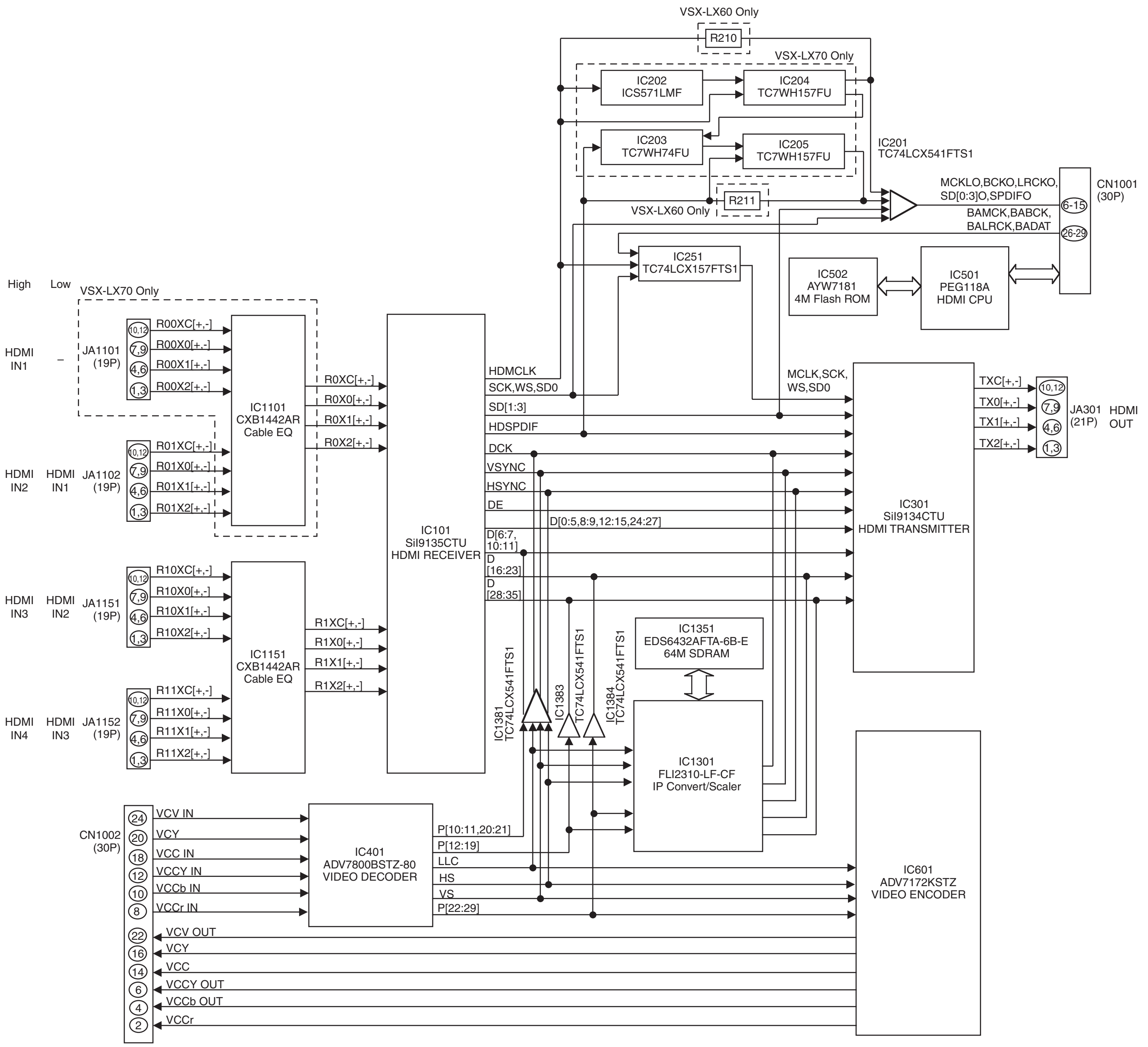


DAC
AK4387ET
IC901
(ZONEL,ZONER)
VSX-LX70 ONLY
SELECTOR
TC74LCX157FTS1
IC313
IC314
IC315
I2S(PCM), DSD
DAC
DSD1791DBR
IC551(FL,FR)
IC651(C,SW)
IC751(SL,SR)
IC851(SBL,SBR)
I2S
LIPSYNC
ML87V5002
IC316
IC317
I2S
CN402 (1/2)
CN304 (1/2)
I2S
BUFFER
TC74VHC08FTS1
IC112
I2S(PCM), DSD
RST
SPI
FLASH ROM
4Mbit
IC202
FLASH ROM
1Mbit
IC271
I2C
DSP (PPP)
FREESCALE
DSPC56371AF180-K
IC201
CN402(2/2)
CN304(2/2)
I2C
16bit DATA BUS
18bit ADDRESS BUS
SPI
SRAM
4Mbit
IC171
19bit ADDRESS BUS
I2S
DSP (DECODER)
SHARC EX
ADP-21366KBCZ-1AA
IC101
SPI
RST
DSP u-COM
(128pin)
PEG396A
IC201
SPI
MAIN u-COM
PEG395A8-K
IC101
FLASH ROM
16Mbit
IC164
8bit DATA BUS
21bit ADDRESS BUS
M
CN401(2/2)
CN303(2/2)
SPI
RST
PURE DIRECT
BASIC AUDIO
RST
TX,RX
RST
CN303 (1/2)
CN401 (1/2)
I2S
I2S
SELECTOR
TC74LCX157FTS1
IC307
SELECTOR
&
BUFFER
TC74LCX157FTS1
IC306
IC309
TC74VHC08FTS1
IC310
I
IC312
XM
F2621E-01
IC951
I2S
I2S
I2S
RST
I2S
RST
SPI
DAUX
ADC
AK5359ET
IC471
I2S
DIR & DIT
AK4114VQ
IC303
HDMI
NETWORK
USB
L
CN991
A
ANALOG IN
DIGITAL
SPDIF

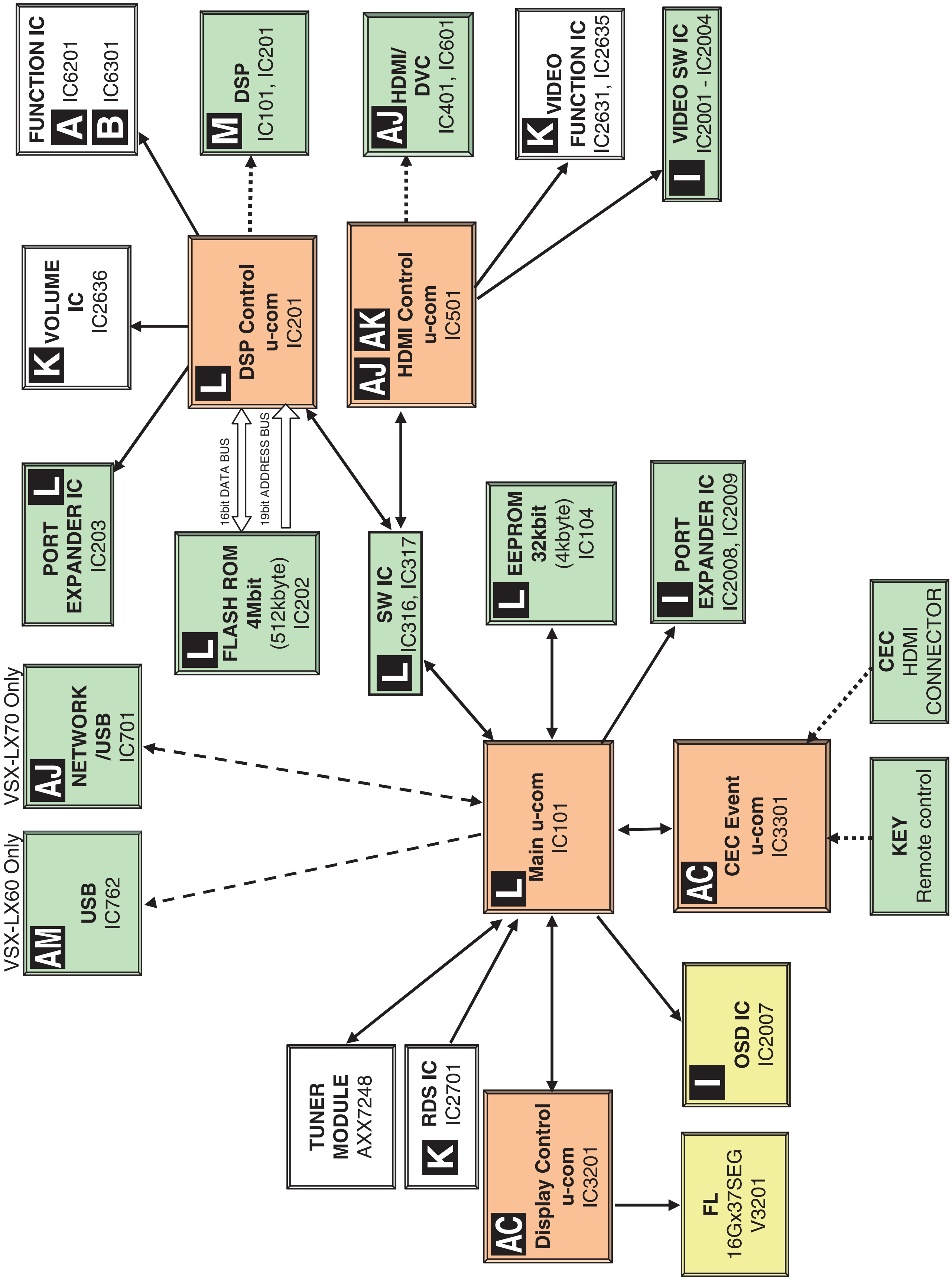
4.7 HDMI & DLNA BLOCK DIAGRAM (VSX-LX70)


CN901
FFC Connector (P=1.00mm)
XFLAG
CTL
SPI_TO_HOST
SPI_CLK
SPI_CS
SPI_FROM_HOST
SPI_REQ
SPDIF
POWER
V+5D
GNDD
V+5D
IC11
3.3V
(800mA)
IC31
3.3V
(500mA)
IC21
1.8V
(800mA)
V+1R8
V+3R3
IC911
5-3 convert
IC921
3-5 convert
SPI_To_Host
SPI_CLK
SPI_CS
SPI_From_Host
SPI_REQ
SPDIF
V+3R3
IC891
SDRAM
(8Mbyte)
SPI
Interface
AV Port
IC701
DM850E
SDRAM
Controller
ADDRESS[0:12]
DATA[0:15]
RAS
CAS
BA0
BA1
DQML
DQMH
WE
CS
CLK
CKE
ADDRESS[0:21]
DATA[0:15]
OE
WE
CE
V+1R8
(Core)
V+3R3
(I/O)
XFLAG
USBVBUSDRV
USBVB
USB
PHY
Ethernet
MAC
10/100
V+3R3
IC881
FLASH ROM
(4MByte)
X701
24.576MHz
MIIDIO
MIIDC
MIIRXD[0:3]
MIIRXDV
MIIRXCLK
MIIRXER
MIITXD[0:3]
MIITXEN
MIITXCLK
MIITXER
MIICOL
MIICRS
MIIPHYCLK
IC921
XFLAG
CTL
D-
D+
IC861
PHY
RTL8201
X861
25.000MHz
V+3R3
V+5D
IC801
USB Load SW
R811
RD+
RD-
TD+
TD-
JA701
AKP1307-A
RJ-45
(Pulse transmitter
is integrated.)
CN801
PH Connector 5P
V5USB
D-
D+
GNDD
GNDC

4.8 HDMI & DVC BLOCK DIAGRAM


VSX-LX60 Only
R210
VSX-LX70 Only
IC202
ICS571LMF
IC204
TC7WH157FU
IC203
TC7WH74FU
IC205
TC7WH157FU
IC201
TC74LCX541FTS1
R211
VSX-LX60 Only
MCKLO,BCKO,LRCKO,
SD[0:3]O,SPDIFO
BAMCK,BABCK,
BALRCK,BADAT
CN1001
(30P)
6-15
26-29
IC251
TC74LCX157FTS1
IC502
AYW7181
4M Flash ROM
IC501
PEG118A
HDMI CPU
High
Low
VSX-LX70 Only
HDMI
IN1
–
JA1101
(19P)
10,12
7,9
4,6
1,3
R00XC[+,-]
R00X0[+,-]
R00X1[+,-]
R00X2[+,-]
IC1101
CXB1442AR
Cable EQ
R0XC[+,-]
R0X0[+,-]
R0X1[+,-]
R0X2[+,-]
HDMI
IN2
HDMI
IN1
JA1102
(19P)
R01XC[+,-]
R01X0[+,-]
R01X1[+,-]
R01X2[+,-]
IC101
SiI9135CTU
HDMI RECEIVER
HDMCLK
SCK,WS,SD0
SD[1:3]
HDSPDIF
DCK
VSYNC
HSYNC
DE
D[0:5,8:9,12:15,24:27]
D[6:7,
10:11]
D
[16:23]
D
[28:35]
MCLK,SCK,
WS,SD0
IC301
SiI9134CTU
HDMI TRANSMITTER
TXC[+,-]
TX0[+,-]
TX1[+,-]
TX2[+,-]
JA301
(21P)
HDMI
OUT
HDMI
IN3
HDMI
IN2
JA1151
(19P)
R10XC[+,-]
R10X0[+,-]
R10X1[+,-]
R10X2[+,-]
IC1151
CXB1442AR
Cable EQ
R1XC[+,-]
R1X0[+,-]
R1X1[+,-]
R1X2[+,-]
HDMI
IN4
HDMI
IN3
JA1152
(19P)
R11XC[+,-]
R11X0[+,-]
R11X1[+,-]
R11X2[+,-]
IC1381
TC74LCX541FTS1
IC1383
TC74LCX541FTS1
IC1384
TC74LCX541FTS1
IC1351
EDS6432AFTA-6B-E
64M SDRAM
IC1301
FLI2310-LF-CF
IP Convert/Scaler
CN1002
(30P)
24
20
18
12
10
8
22
16
14
6
4
2
VCV IN
VCY
VCC IN
VCCY IN
VCCb IN
VCCr IN
IC401
ADV7800BSTZ-80
VIDEO DECODER
P[10:11,20:21]
P[12:19]
LLC
HS
VS
P[22:29]
IC601
ADV7172KSTZ
VIDEO ENCODER
VCV OUT
VCY
VCC
VCCY OUT
VCCb OUT
VCCr

4.9 MICROCOMPUTER BLOCK DIAGRAM


A
B
FUNCTION IC
IC6201
IC6301
M
DSP
IC101, IC201
AJ
HDMI/
DVC
IC401, IC601
K
VIDEO
FUNCTION IC
IC2631, IC2635
I
VIDEO SW IC
IC2001 - IC2004
K
VOLUME
IC
IC2636
L
DSP Control
u-com
IC201
AJ AK
HDMI Control
u-com
IC501
16bit DATA BUS
19bit ADDRESS BUS
L
PORT
EXPANDER IC
IC203
L
FLASH ROM
4Mbit
(512kbyte)
IC202
L
SW IC
IC316, IC317
L
EEPROM
32kbit
(4kbyte)
IC104
I
PORT
EXPANDER IC
IC2008, IC2009
CEC
HDMI
CONNECTOR
VSX-LX70 Only
AJ
NETWORK
/USB
IC701
L
Main u-com
IC101
AC
CEC Event
u-com
IC3301
KEY
Remote control
VSX-LX60 Only
AM
USB
IC762
I
OSD IC
IC2007
TUNER
MODULE
AXX7248
K
RDS IC
IC2701
AC
Display Control
u-com
IC3201
FL
16Gx37SEG
V3201

5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

5.1.1 DSP TROUBLESHOOTING

■ Unsophisticated Diagnosis

DSP Ass'y malfunction is detected
(The part can be roughly expected just by operation of the main unit.)

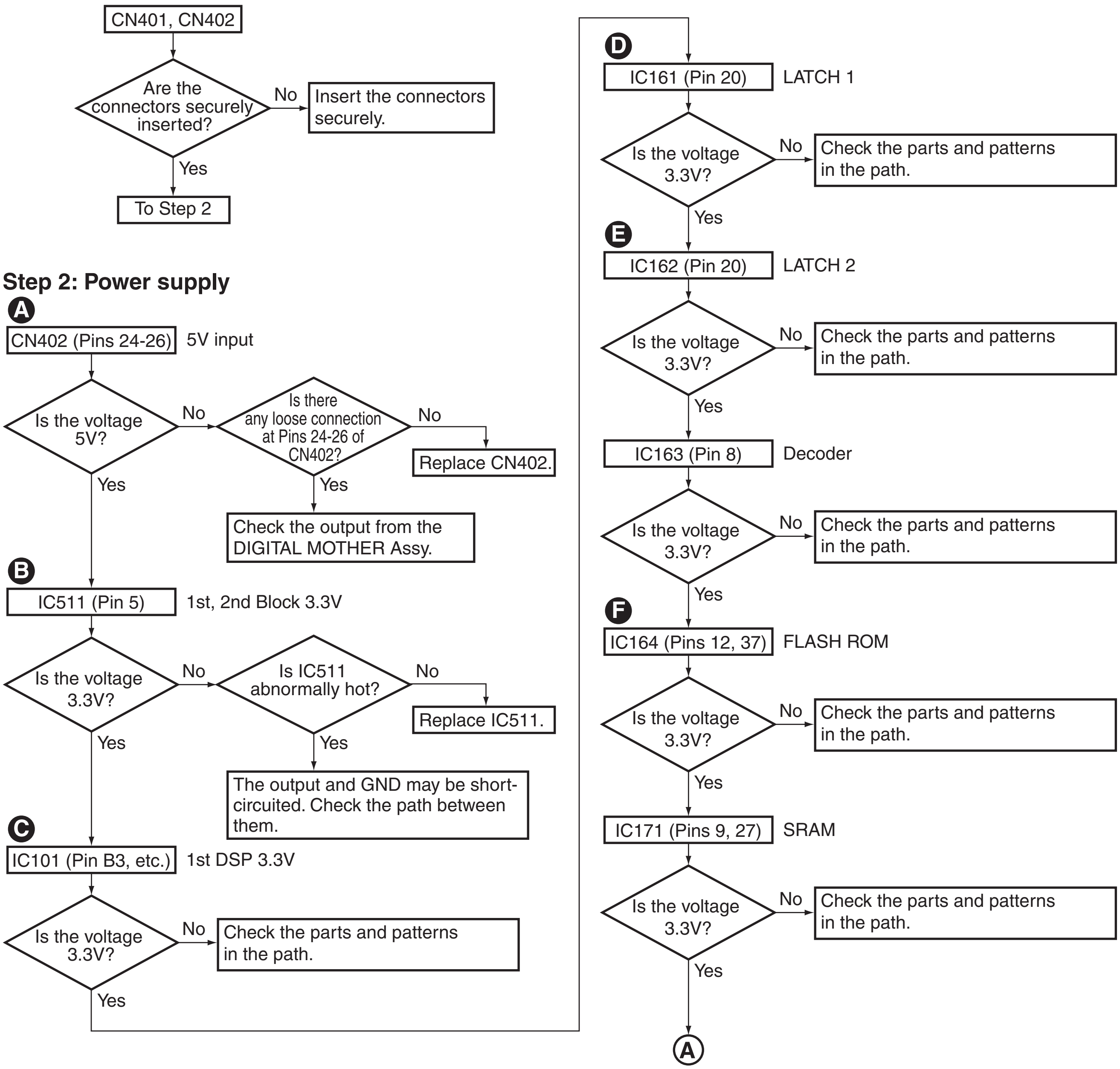
- **Has DSP Ass'y caused the malfunction?**
  Inputing a PCM (such as CD) digital signal, check if the sound plays by switching AUTO SURR / STREAM DIRECT. When the sound doesn't play in AUTO SURROUND or DIRECT MODE though it does in PURE DIRECT (PCM DIRECT) MODE, DSP Ass'y might be defective.

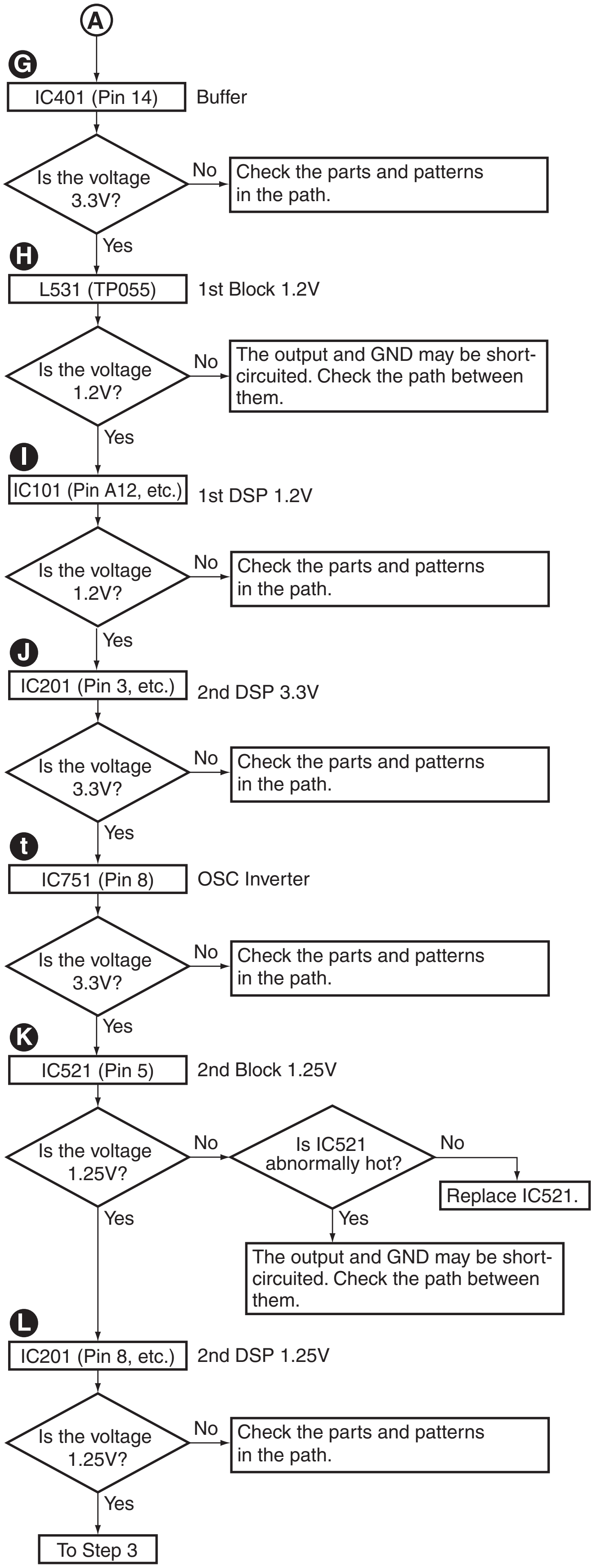
■ Troubleshooting

- It is assumed that there is no loose connection or damage in the LCRs.
- Refer to "DSP Block Diagram" and "DSP Assy check point" as the parts marked Ⓐ to AF in the troubleshooting are located.

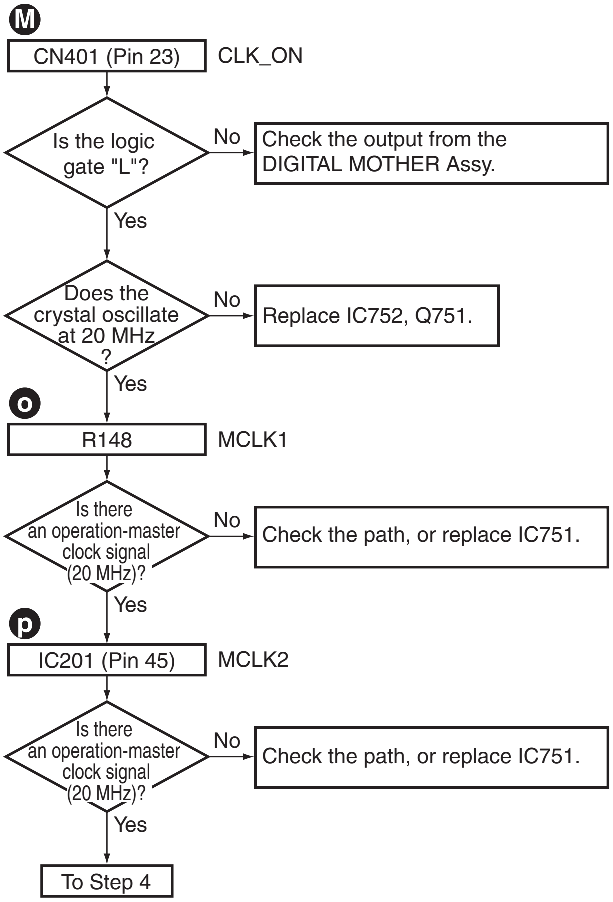
Step 1: Connections

Step 2: Power supply

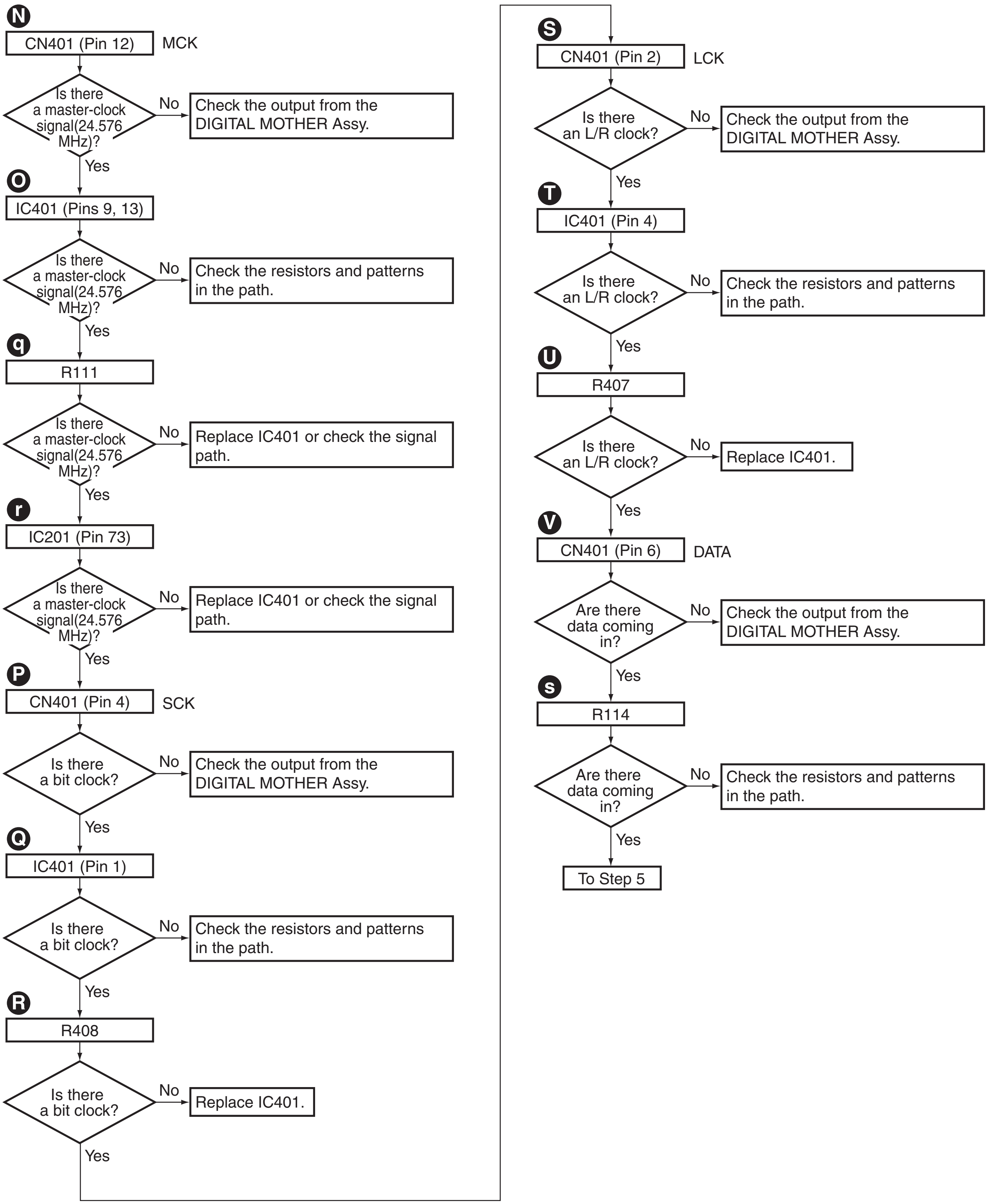

CN401, CN402
Are the connectors securely inserted?
No
Insert the connectors securely.
Yes
To Step 2
A
CN402 (Pins 24-26)
5V input
Is the voltage 5V?
No
Is there any loose connection at Pins 24-26 of CN402?
No
Replace CN402.
Yes
Check the output from the DIGITAL MOTHER Assy.
Yes
B
IC511 (Pin 5)
1st, 2nd Block 3.3V
Is the voltage 3.3V?
No
Is IC511 abnormally hot?
No
Replace IC511.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
C
IC101 (Pin B3, etc.)
1st DSP 3.3V
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
D
IC161 (Pin 20)
LATCH 1
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
E
IC162 (Pin 20)
LATCH 2
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
IC163 (Pin 8)
Decoder
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
F
IC164 (Pins 12, 37)
FLASH ROM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
IC171 (Pins 9, 27)
SRAM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
A


A
G
IC401 (Pin 14)
Buffer
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
H
L531 (TP055)
1st Block 1.2V
Is the voltage 1.2V?
No
The output and GND may be short-circuited. Check the path between them.
Yes
I
IC101 (Pin A12, etc.)
1st DSP 1.2V
Is the voltage 1.2V?
No
Check the parts and patterns in the path.
Yes
J
IC201 (Pin 3, etc.)
2nd DSP 3.3V
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
t
IC751 (Pin 8)
OSC Inverter
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
K
IC521 (Pin 5)
2nd Block 1.25V
Is the voltage 1.25V?
No
Is IC521 abnormally hot?
No
Replace IC521.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
L
IC201 (Pin 8, etc.)
2nd DSP 1.25V
Is the voltage 1.25V?
No
Check the parts and patterns in the path.
Yes
To Step 3

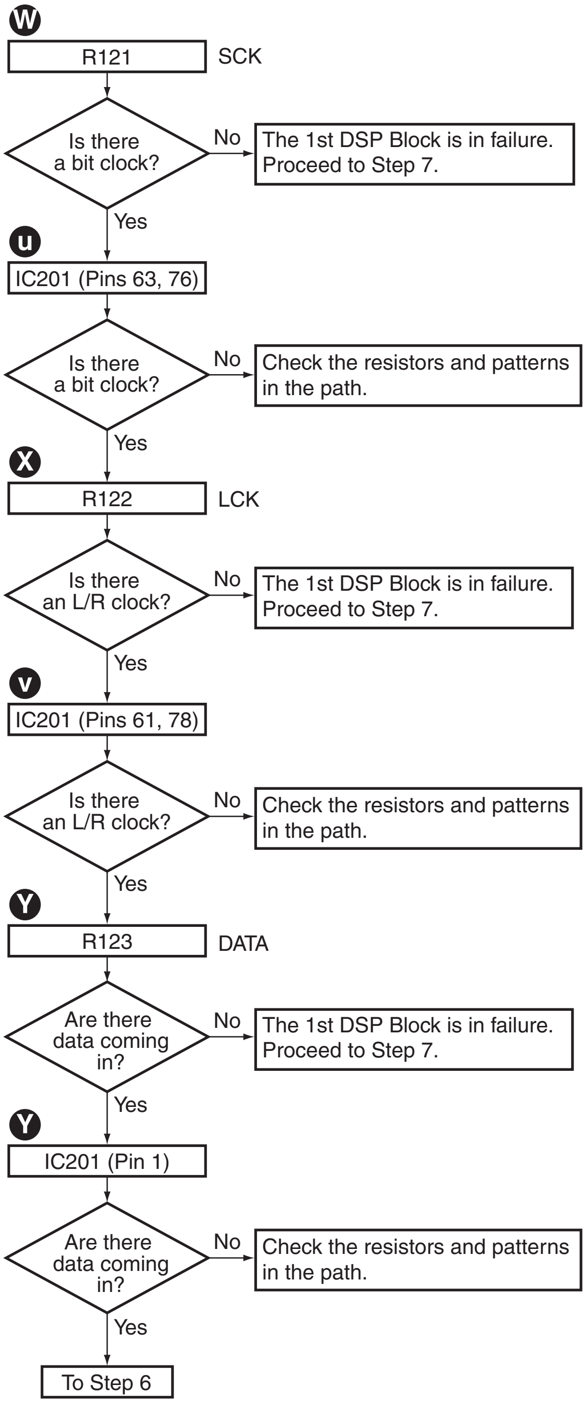
Step 3: Operation of the Master Clock


M
CN401 (Pin 23)
CLK_ON
Is the logic gate "L"?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
Does the crystal oscillate at 20 MHz ?
No
Replace IC752, Q751.
Yes
o
R148
MCLK1
Is there an operation-master clock signal (20 MHz)?
No
Check the path, or replace IC751.
Yes
p
IC201 (Pin 45)
MCLK2
Is there an operation-master clock signal (20 MHz)?
No
Check the path, or replace IC751.
Yes
To Step 4

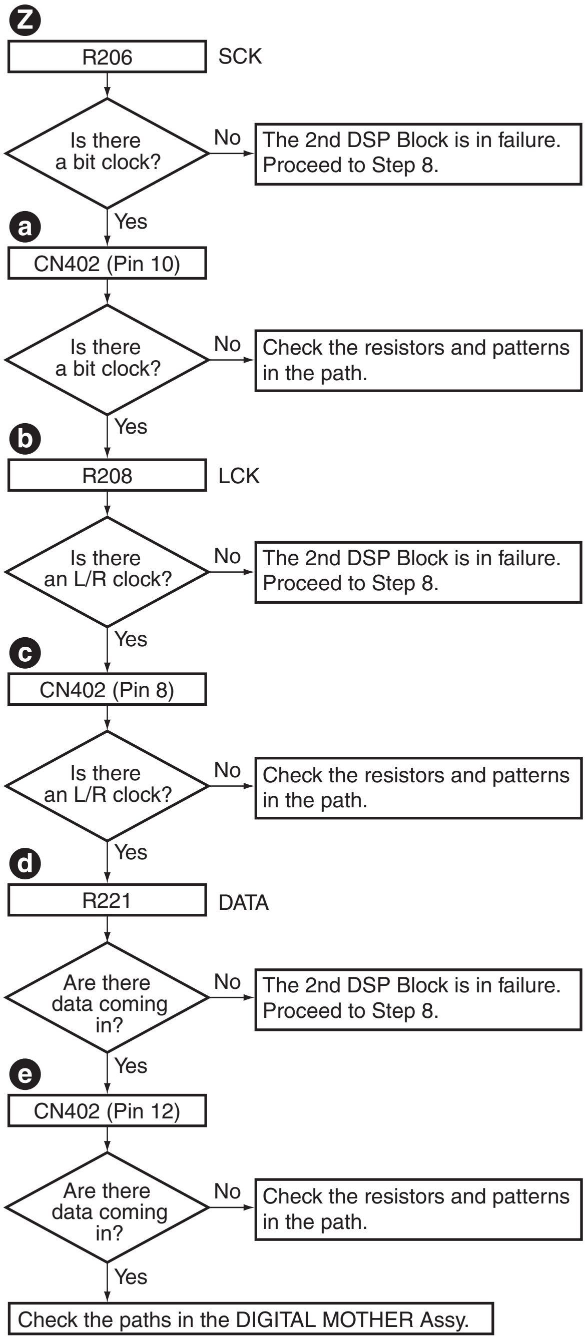
Step 4: Audio Clock


N
CN401 (Pin 12)
MCK
Is there a master-clock signal(24.576 MHz)?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
O
IC401 (Pins 9, 13)
Is there a master-clock signal(24.576 MHz)?
No
Check the resistors and patterns in the path.
Yes
q
R111
Is there a master-clock signal(24.576 MHz)?
No
Replace IC401 or check the signal path.
Yes
r
IC201 (Pin 73)
Is there a master-clock signal(24.576 MHz)?
No
Replace IC401 or check the signal path.
Yes
P
CN401 (Pin 4)
SCK
Is there a bit clock?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
Q
IC401 (Pin 1)
Is there a bit clock?
No
Check the resistors and patterns in the path.
Yes
R
R408
Is there a bit clock?
No
Replace IC401.
Yes
S
CN401 (Pin 2)
LCK
Is there an L/R clock?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
T
IC401 (Pin 4)
Is there an L/R clock?
No
Check the resistors and patterns in the path.
Yes
U
R407
Is there an L/R clock?
No
Replace IC401.
Yes
V
CN401 (Pin 6)
DATA
Are there data coming in?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
s
R114
Are there data coming in?
No
Check the resistors and patterns in the path.
Yes
To Step 5

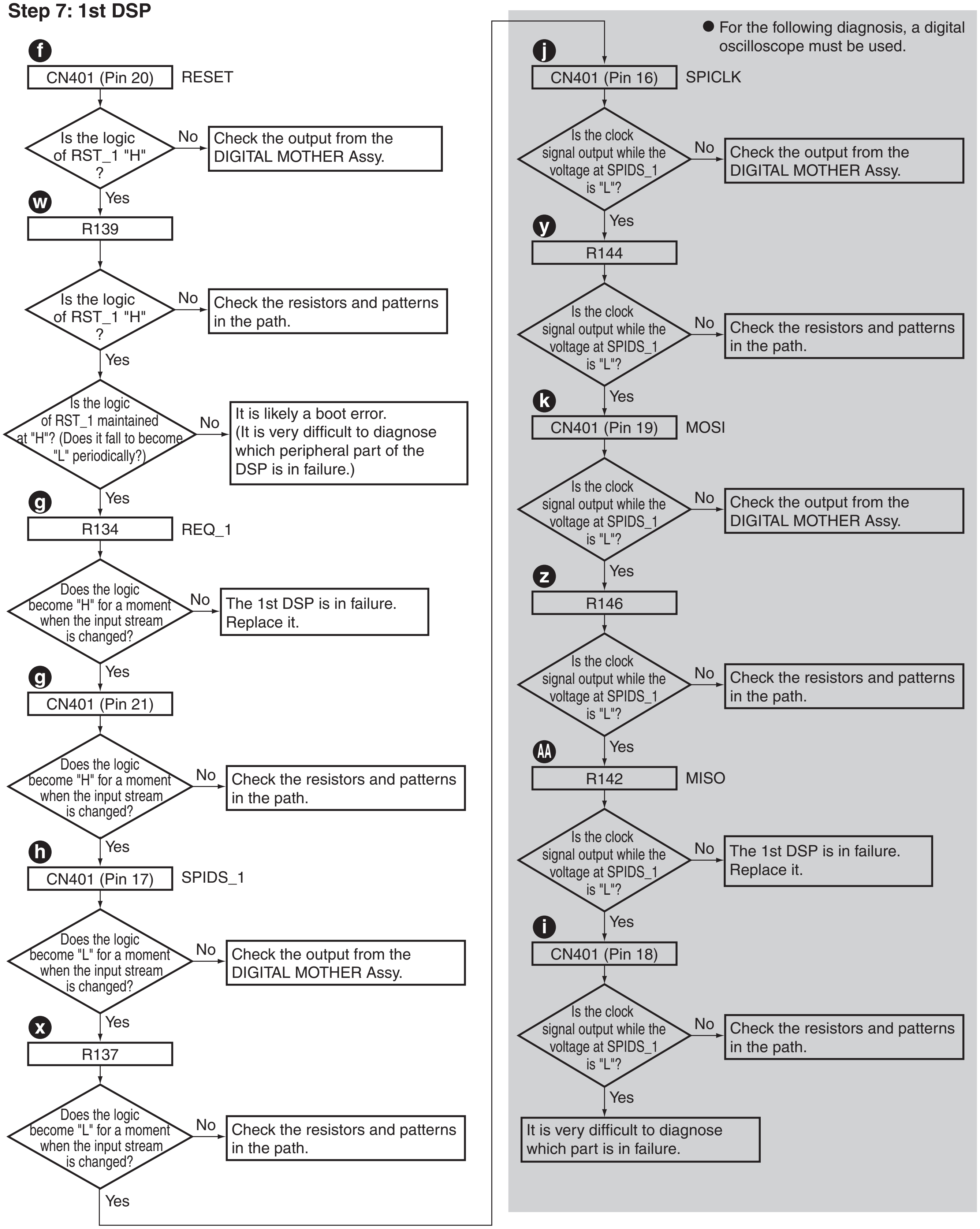
Step 5


W
R121
SCK
Is there a bit clock?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
u
IC201 (Pins 63, 76)
Is there a bit clock?
No
Check the resistors and patterns in the path.
Yes
X
R122
LCK
Is there an L/R clock?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
v
IC201 (Pins 61, 78)
Is there an L/R clock?
No
Check the resistors and patterns in the path.
Yes
Y
R123
DATA
Are there data coming in?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
Y
IC201 (Pin 1)
Are there data coming in?
No
Check the resistors and patterns in the path.
Yes
To Step 6

Step 6


Z
R206
SCK
Is there a bit clock?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
a
CN402 (Pin 10)
Is there a bit clock?
No
Check the resistors and patterns in the path.
Yes
b
R208
LCK
Is there an L/R clock?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
c
CN402 (Pin 8)
Is there an L/R clock?
No
Check the resistors and patterns in the path.
Yes
d
R221
DATA
Are there data coming in?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
e
CN402 (Pin 12)
Are there data coming in?
No
Check the resistors and patterns in the path.
Yes
Check the paths in the DIGITAL MOTHER Assy.

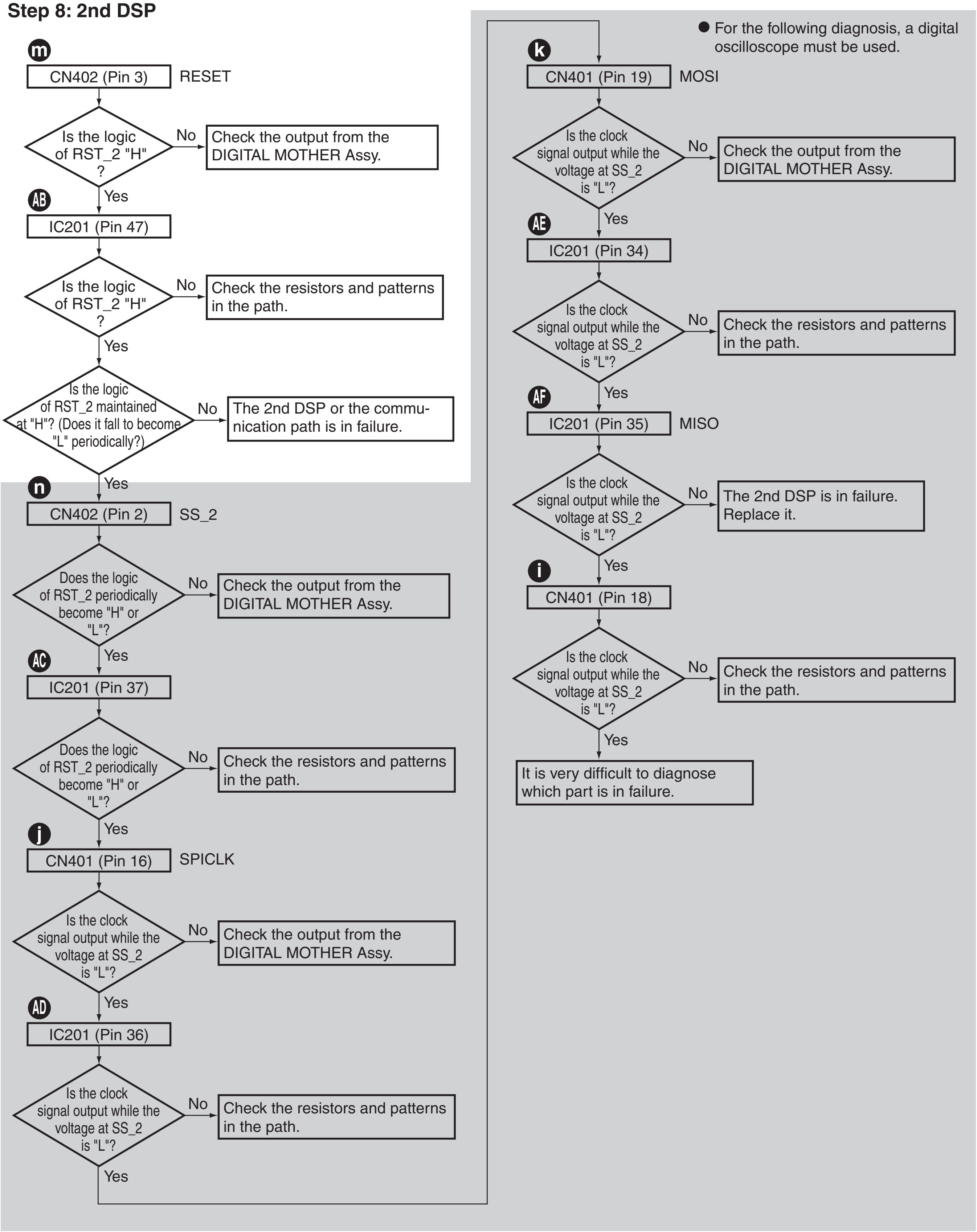
Step 7: 1st DSP



f
CN401 (Pin 20)
RESET
Is the logic of RST_1 "H" ?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
w
R139
Is the logic of RST_1 "H" ?
No
Check the resistors and patterns in the path.
Yes
Is the logic of RST_1 maintained at "H"? (Does it fall to become "L" periodically?)
No
It is likely a boot error. (It is very difficult to diagnose which peripheral part of the DSP is in failure.)
Yes
g
R134
REQ_1
Does the logic become "H" for a moment when the input stream is changed?
No
The 1st DSP is in failure. Replace it.
Yes
g
CN401 (Pin 21)
Does the logic become "H" for a moment when the input stream is changed?
No
Check the resistors and patterns in the path.
Yes
h
CN401 (Pin 17)
SPIDS_1
Does the logic become "L" for a moment when the input stream is changed?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
x
R137
Does the logic become "L" for a moment when the input stream is changed?
No
Check the resistors and patterns in the path.
Yes
j
CN401 (Pin 16)
SPICLK
Is the clock signal output while the voltage at SPIDS_1 is "L"?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
y
R144
Is the clock signal output while the voltage at SPIDS_1 is "L"?
No
Check the resistors and patterns in the path.
Yes
k
CN401 (Pin 19)
MOSI
Is the clock signal output while the voltage at SPIDS_1 is "L"?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
z
R146
Is the clock signal output while the voltage at SPIDS_1 is "L"?
No
Check the resistors and patterns in the path.
Yes
AA
R142
MISO
Is the clock signal output while the voltage at SPIDS_1 is "L"?
No
The 1st DSP is in failure. Replace it.
Yes
i
CN401 (Pin 18)
Is the clock signal output while the voltage at SPIDS_1 is "L"?
No
Check the resistors and patterns in the path.
Yes
It is very difficult to diagnose which part is in failure.

- For the following diagnosis, a digital oscilloscope must be used.

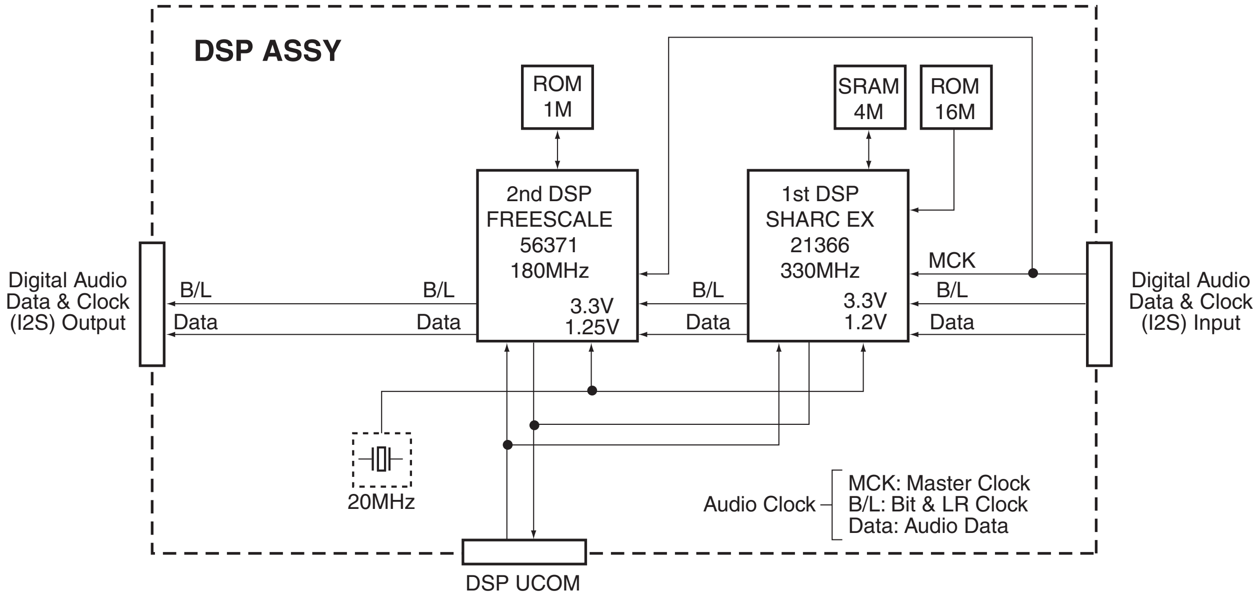
Step 8: 2nd DSP


● For the following diagnosis, a digital oscilloscope must be used.

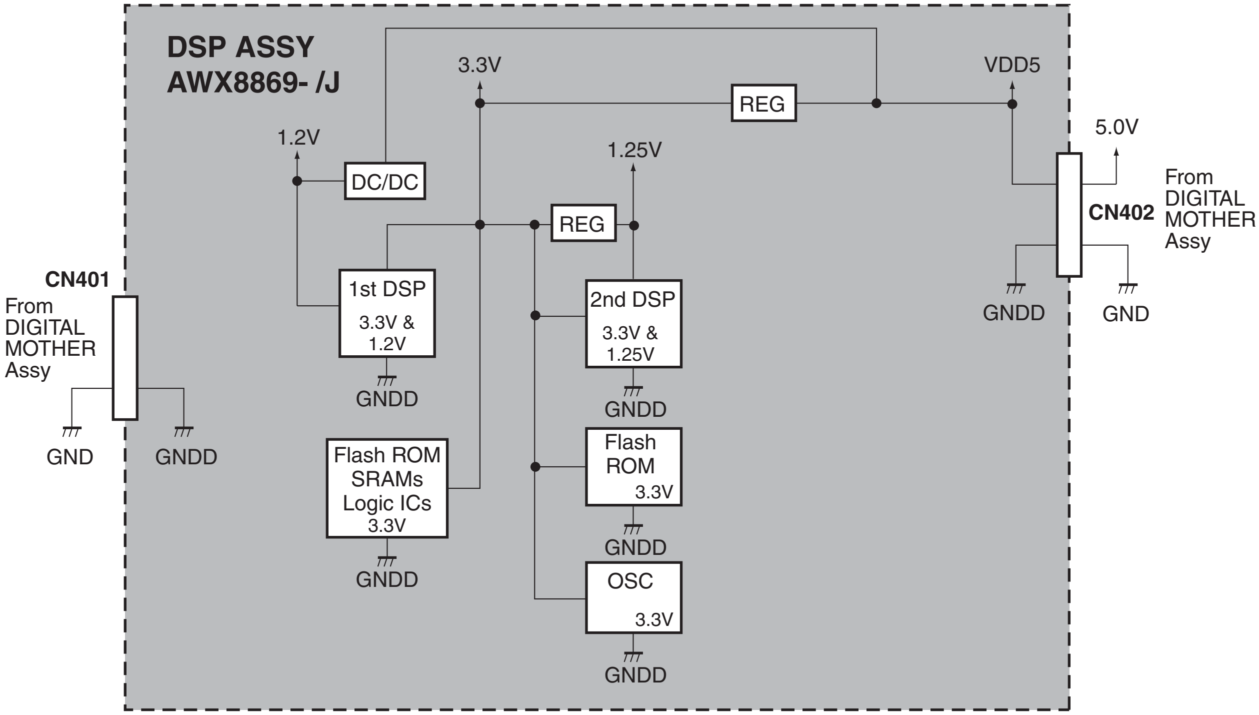
m
CN402 (Pin 3)
RESET
Is the logic of RST_2 "H" ?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
AB
IC201 (Pin 47)
Is the logic of RST_2 "H" ?
No
Check the resistors and patterns in the path.
Yes
Is the logic of RST_2 maintained at "H"? (Does it fall to become "L" periodically?)
No
The 2nd DSP or the communication path is in failure.
Yes
n
CN402 (Pin 2)
SS_2
Does the logic of RST_2 periodically become "H" or "L"?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
AC
IC201 (Pin 37)
Does the logic of RST_2 periodically become "H" or "L"?
No
Check the resistors and patterns in the path.
Yes
j
CN401 (Pin 16)
SPICLK
Is the clock signal output while the voltage at SS_2 is "L"?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
AD
IC201 (Pin 36)
Is the clock signal output while the voltage at SS_2 is "L"?
No
Check the resistors and patterns in the path.
Yes
k
CN401 (Pin 19)
MOSI
Is the clock signal output while the voltage at SS_2 is "L"?
No
Check the output from the DIGITAL MOTHER Assy.
Yes
AE
IC201 (Pin 34)
Is the clock signal output while the voltage at SS_2 is "L"?
No
Check the resistors and patterns in the path.
Yes
AF
IC201 (Pin 35)
MISO
Is the clock signal output while the voltage at SS_2 is "L"?
No
The 2nd DSP is in failure. Replace it.
Yes
i
CN401 (Pin 18)
Is the clock signal output while the voltage at SS_2 is "L"?
No
Check the resistors and patterns in the path.
Yes
It is very difficult to diagnose which part is in failure.

DSP Block Diagram

• CORE Block


DSP ASSY
ROM
1M
SRAM
4M
ROM
16M
2nd DSP
FREESCALE
56371
180MHz
3.3V
1.25V
1st DSP
SHARC EX
21366
330MHz
3.3V
1.2V
Digital Audio
Data & Clock
(I2S) Output
B/L
Data
B/L
Data
B/L
Data
MCK
B/L
Data
Digital Audio
Data & Clock
(I2S) Input
20MHz
Audio Clock
MCK: Master Clock
B/L: Bit & LR Clock
Data: Audio Data
DSP UCOM

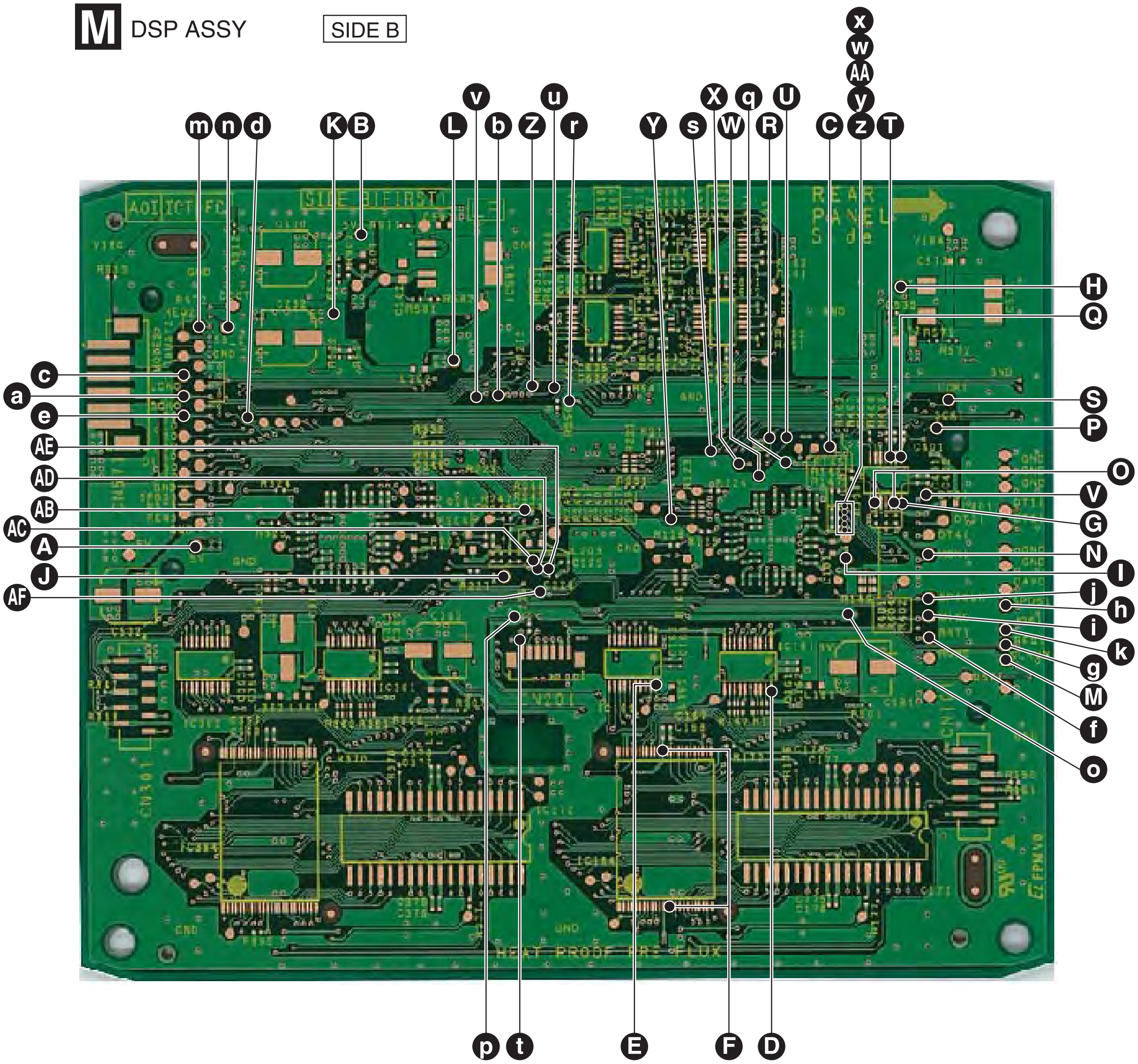
• Power Block and GND Map


DSP ASSY
AWX8869- /J
3.3V
VDD5
REG
1.2V
DC/DC
1.25V
5.0V
REG
CN402
From
DIGITAL
MOTHER
Assy
GNDD
GND
CN401
From
DIGITAL
MOTHER
Assy
GND
GNDD
1st DSP
3.3V &
1.2V
GNDD
2nd DSP
3.3V &
1.25V
GNDD
Flash ROM
SRAMs
Logic ICs
3.3V
GNDD
Flash
ROM
3.3V
GNDD
OSC
3.3V
GNDD

▨ : Shows internal ground (GNDD)

DSP Assy Check Points

M DSP ASSY SIDE B


x
w
AA
y
v
u
X
q
U
m
n
d
K
B
L
b
Z
r
Y
s
W
R
C
z
T
H
Q
c
a
e
S
P
AE
AD
O
AB
V
AC
G
A
N
J
I
AF
j
h
i
k
g
M
f
o
p
t
E
F
D

5.1.2 DIAGNOSIS OF THE HDMI BLOCK AND RELATED SYSTEMS

■ HDMI Simple Diagnosis

Please refer to the one point trouble shooting first before checking the flow chart on the next page.

HDMI

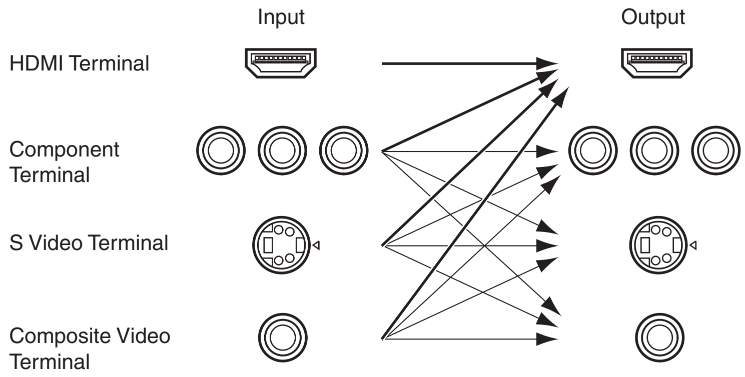
Symptom	Remedy
The HDMI indicator blinks continuously.	Check all the points below.
No picture or sound.	• This receiver is HDCP-compatible. Check that the components you are connecting are also HDCP-compatible. If they are not, please connect them using the component, S-video or composite video jacks. • Depending on the connected source component, it’s possible that it will not work with this receiver (even if it is HDCP-compatible). • If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.
No picture.	• Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the component, S-video or composite jacks.
No sound, or sound suddenly ceases.	• Check that the HDMI setting is set to **AMP/THROUGH**. • If the component is a DVI device, use a separate connection for the audio. • Check the audio output settings of the source component.

Note:

- An HDMI connection can only be made with DVI-equipped components compatible with both DVI and High Bandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a separate adaptor (DVI → HDMI) to do so.
  A DVI connection, however, does not support audio signals. Consult your local audio dealer for more information.
- This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface) Version 1.3a.
  Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers. Also, when using a component with HDMI version 1.39, it is not possible to output copy-controlled DVD-Audio CPPM sources from the HDMI connection.

Digital Video Converting System

The following chart is for video converting. As you can see HDMI input signal is output to HDMI output terminal only. Other analog inputs can be converted to HDMI output signal.

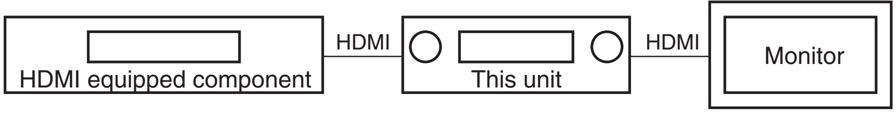


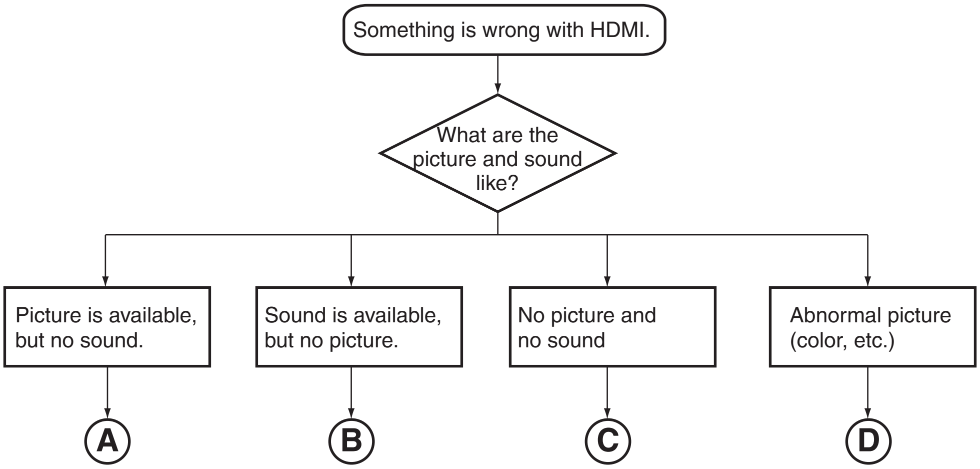
HDMI Audio routing line

Input		Output	HDMI Setting
HDMI	→	HDMI	THROUGH
		Pre out	AMP
		SP Out	
other	→	HDMI	THROUGH
		Pre out	AMP
		SP Out	

■ Status confirmation

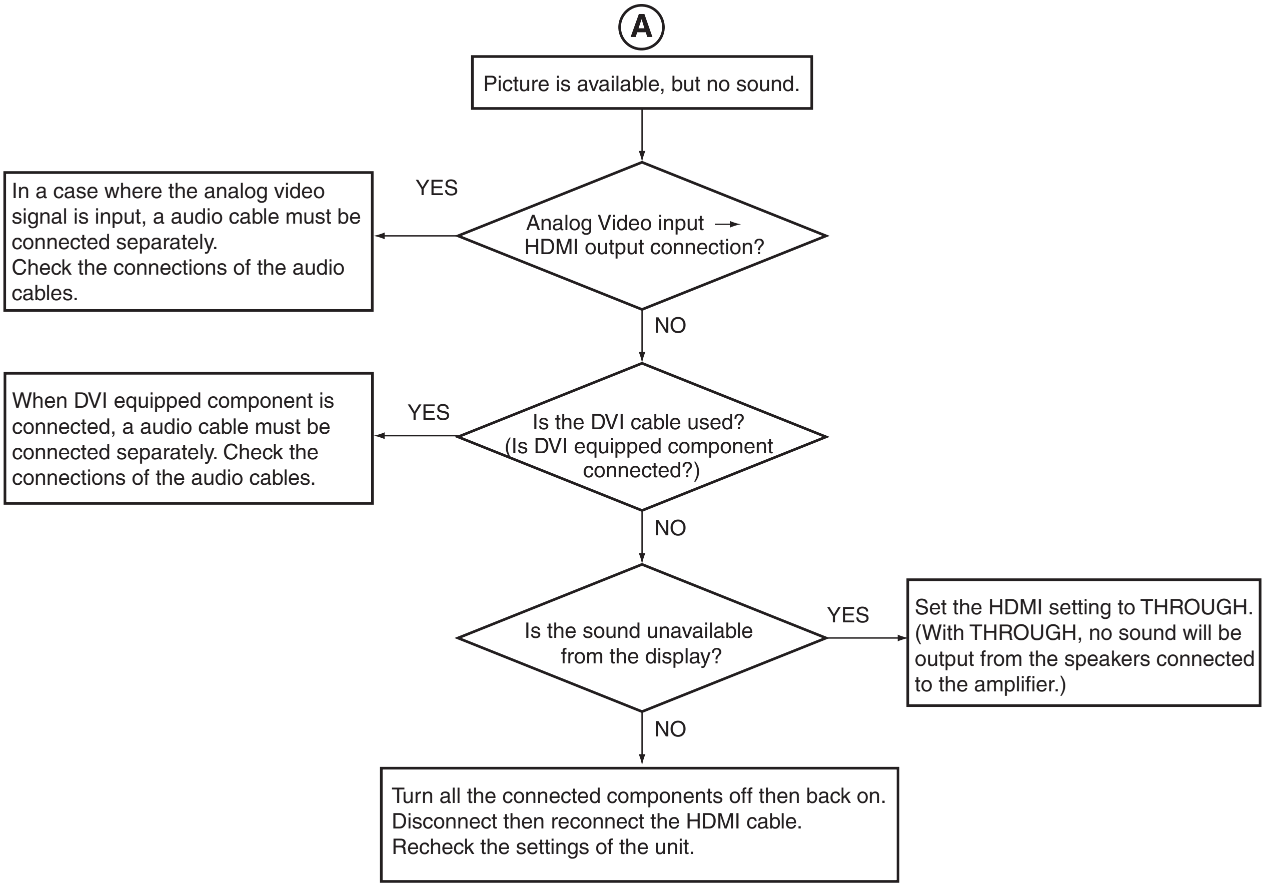
The following charts are based on the HDMI connection below.


HDMI equipped component
HDMI
This unit
HDMI
Monitor

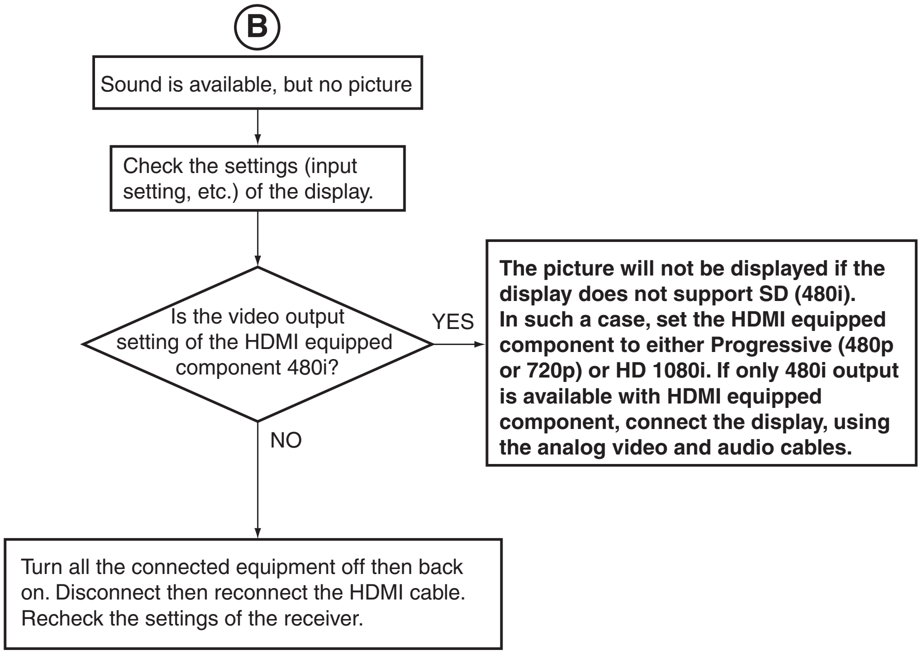

Something is wrong with HDMI.
What are the picture and sound like?
Picture is available, but no sound.
Sound is available, but no picture.
No picture and no sound
Abnormal picture (color, etc.)
A
B
C
D

- In either case, check the connection cables, input selection, and initial settings of the unit first.
- "Analog video" hereinafter means composite, S, or component video.
- "Audio cable" hereinafter means either analog or digital audio connection cables.
- "display" hereinafter means HDMI-compatible monitor or plasma display.

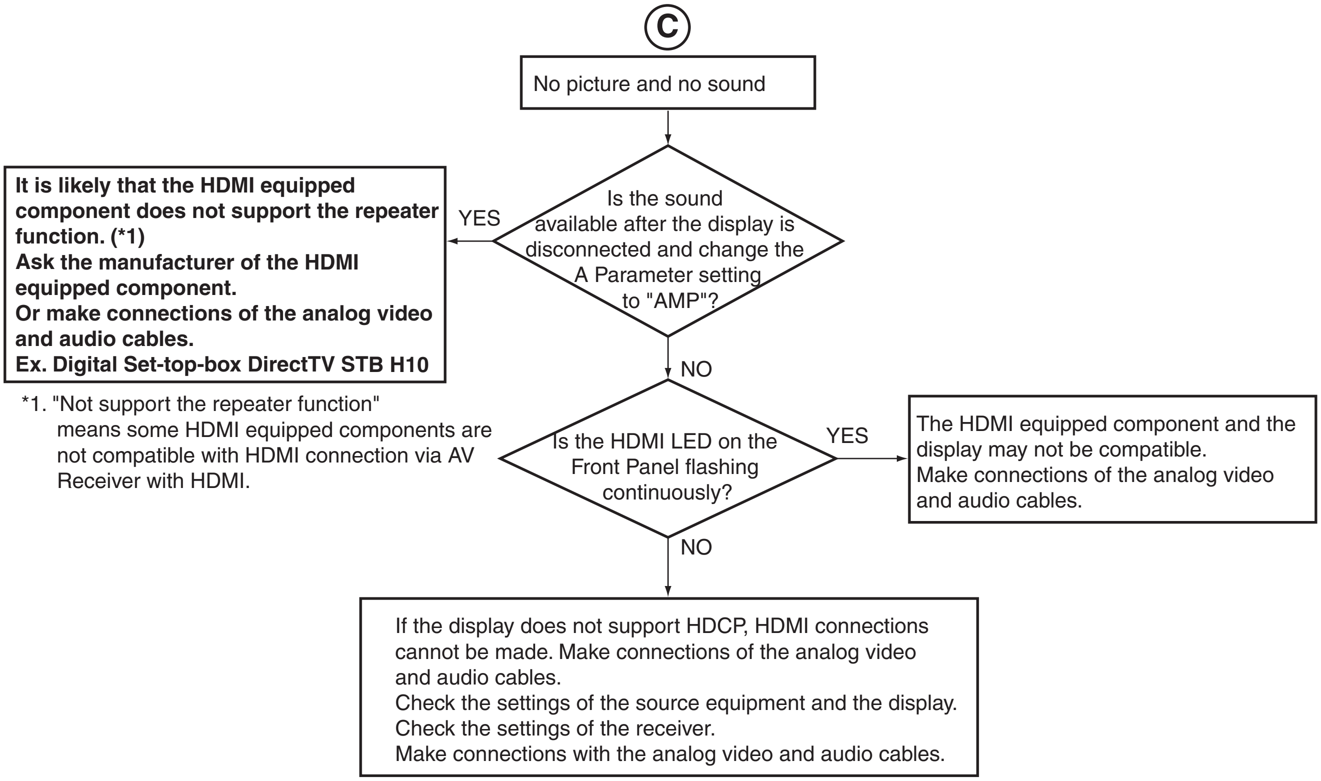
■ In a case where picture is available, but no sound


A
Picture is available, but no sound.
Analog Video input → HDMI output connection?
YES
In a case where the analog video signal is input, a audio cable must be connected separately. Check the connections of the audio cables.
NO
Is the DVI cable used? (Is DVI equipped component connected?)
YES
When DVI equipped component is connected, a audio cable must be connected separately. Check the connections of the audio cables.
NO
Is the sound unavailable from the display?
YES
Set the HDMI setting to THROUGH. (With THROUGH, no sound will be output from the speakers connected to the amplifier.)
NO
Turn all the connected components off then back on. Disconnect then reconnect the HDMI cable. Recheck the settings of the unit.

■ In a case where the sound is available, but no picture

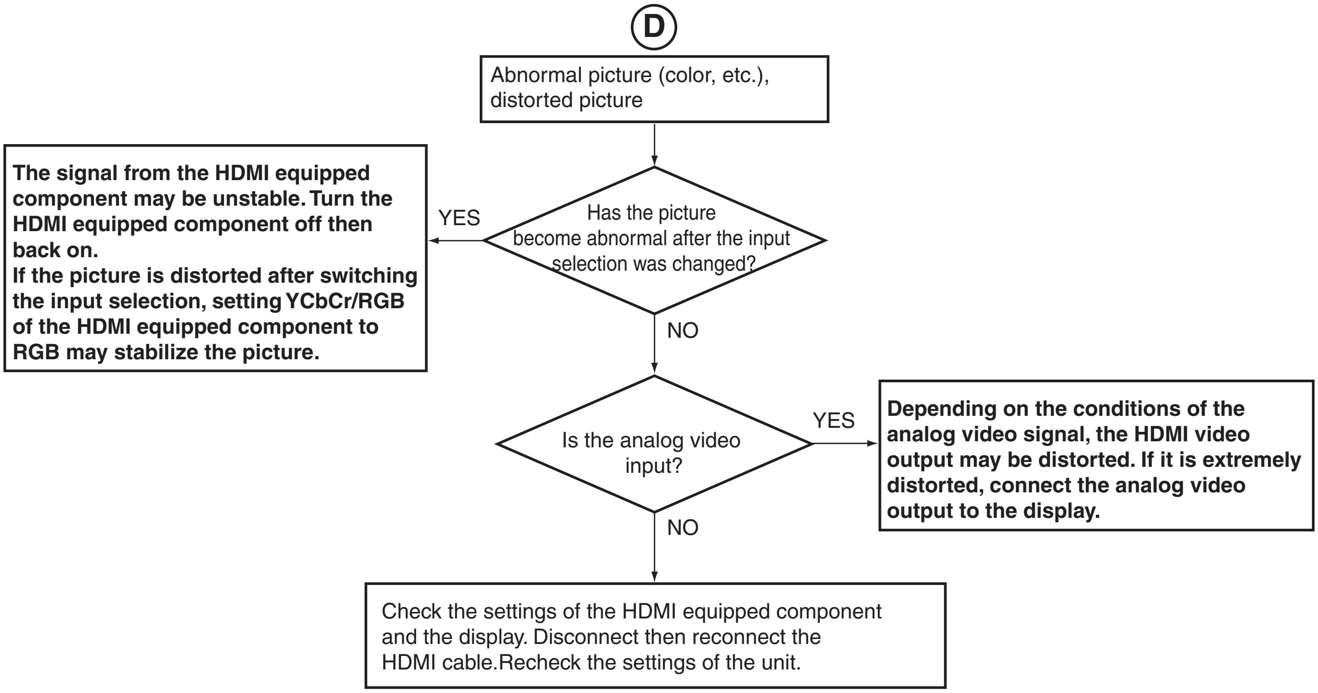

B
Sound is available, but no picture
Check the settings (input setting, etc.) of the display.
Is the video output setting of the HDMI equipped component 480i?
YES
The picture will not be displayed if the display does not support SD (480i). In such a case, set the HDMI equipped component to either Progressive (480p or 720p) or HD 1080i. If only 480i output is available with HDMI equipped component, connect the display, using the analog video and audio cables.
NO
Turn all the connected equipment off then back on. Disconnect then reconnect the HDMI cable. Recheck the settings of the receiver.

■ In a case of no picture and no sound

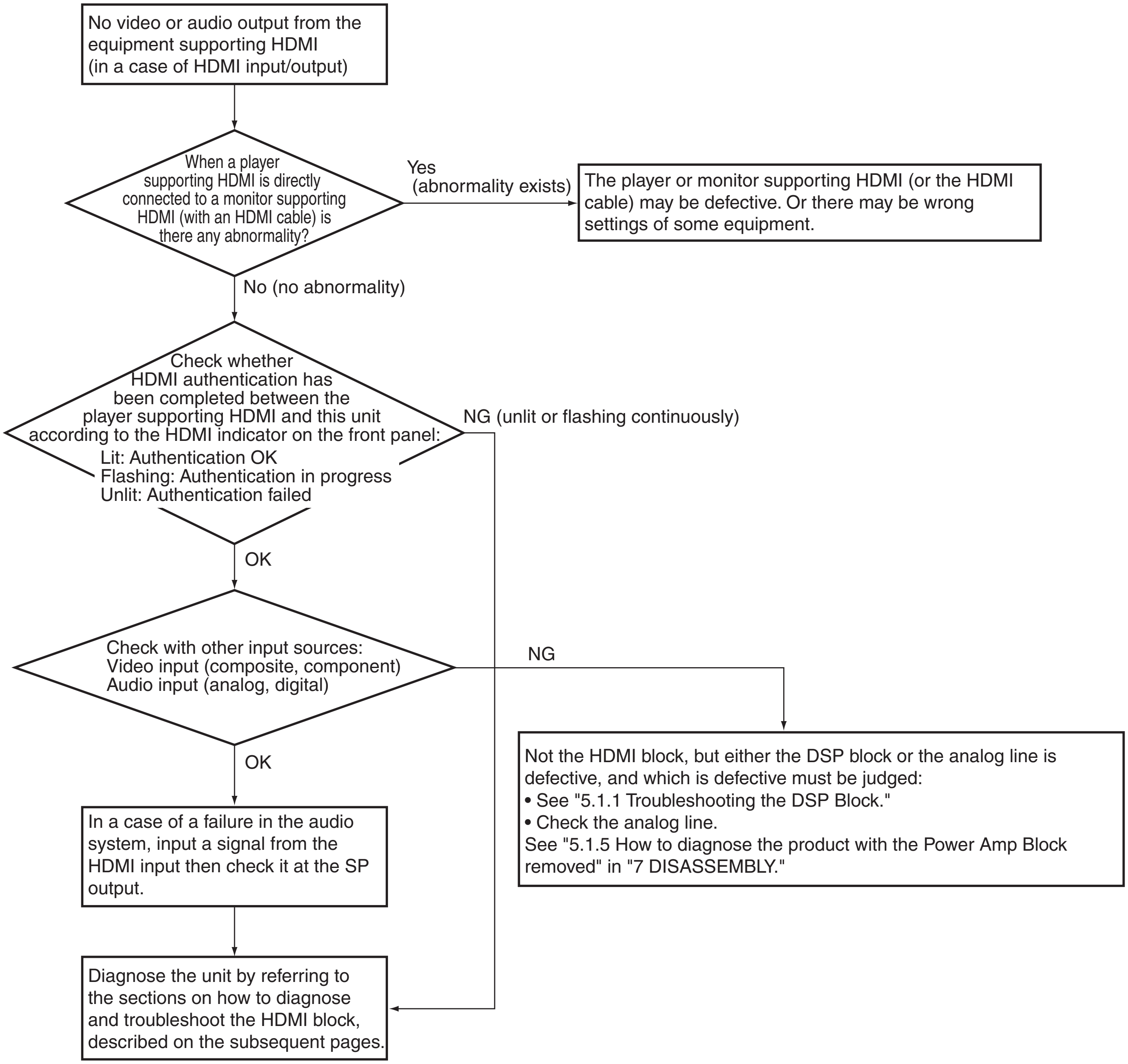

C
No picture and no sound
Is the sound available after the display is disconnected and change the A Parameter setting to "AMP"?
YES
It is likely that the HDMI equipped component does not support the repeater function. (*1)
Ask the manufacturer of the HDMI equipped component.
Or make connections of the analog video and audio cables.
Ex. Digital Set-top-box DirectTV STB H10
NO
Is the HDMI LED on the Front Panel flashing continuously?
YES
The HDMI equipped component and the display may not be compatible.
Make connections of the analog video and audio cables.
NO
If the display does not support HDCP, HDMI connections cannot be made. Make connections of the analog video and audio cables.
Check the settings of the source equipment and the display.
Check the settings of the receiver.
Make connections with the analog video and audio cables.

*1. "Not support the repeater function" means some HDMI equipped components are not compatible with HDMI connection via AV Receiver with HDMI.

■ In a case of abnormal picture


D
Abnormal picture (color, etc.), distorted picture
Has the picture become abnormal after the input selection was changed?
YES
The signal from the HDMI equipped component may be unstable. Turn the HDMI equipped component off then back on.
If the picture is distorted after switching the input selection, setting YCbCr/RGB of the HDMI equipped component to RGB may stabilize the picture.
NO
Is the analog video input?
YES
Depending on the conditions of the analog video signal, the HDMI video output may be distorted. If it is extremely distorted, connect the analog video output to the display.
NO
Check the settings of the HDMI equipped component and the display. Disconnect then reconnect the HDMI cable.Recheck the settings of the unit.

■ Flowchart of troubleshooting the HDMI block


No video or audio output from the equipment supporting HDMI (in a case of HDMI input/output)
When a player supporting HDMI is directly connected to a monitor supporting HDMI (with an HDMI cable) is there any abnormality?
Yes (abnormality exists)
The player or monitor supporting HDMI (or the HDMI cable) may be defective. Or there may be wrong settings of some equipment.
No (no abnormality)
Check whether HDMI authentication has been completed between the player supporting HDMI and this unit according to the HDMI indicator on the front panel:
Lit: Authentication OK
Flashing: Authentication in progress
Unlit: Authentication failed
NG (unlit or flashing continuously)
OK
Check with other input sources:
Video input (composite, component)
Audio input (analog, digital)
NG
Not the HDMI block, but either the DSP block or the analog line is defective, and which is defective must be judged:
• See "5.1.1 Troubleshooting the DSP Block."
• Check the analog line.
See "5.1.5 How to diagnose the product with the Power Amp Block removed" in "7 DISASSEMBLY."
OK
In a case of a failure in the audio system, input a signal from the HDMI input then check it at the SP output.
Diagnose the unit by referring to the sections on how to diagnose and troubleshoot the HDMI block, described on the subsequent pages.

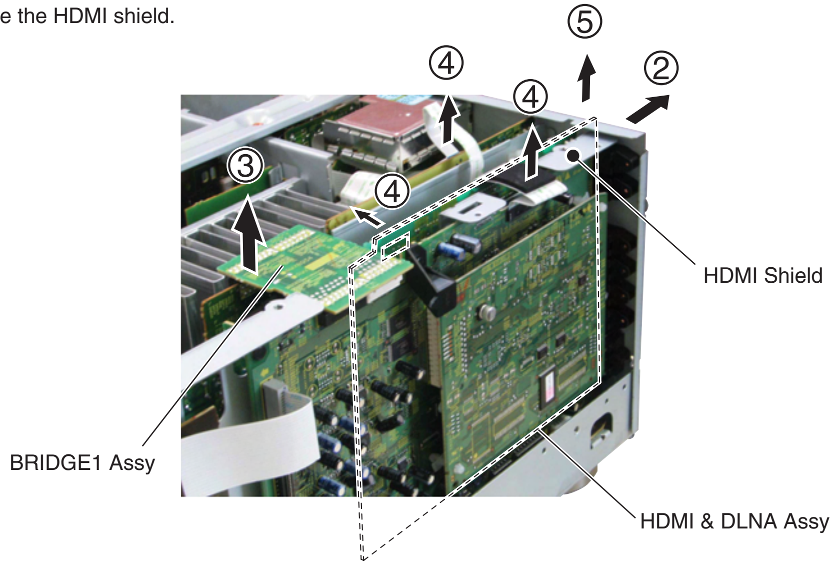
■ Preparations for diagnosis

Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

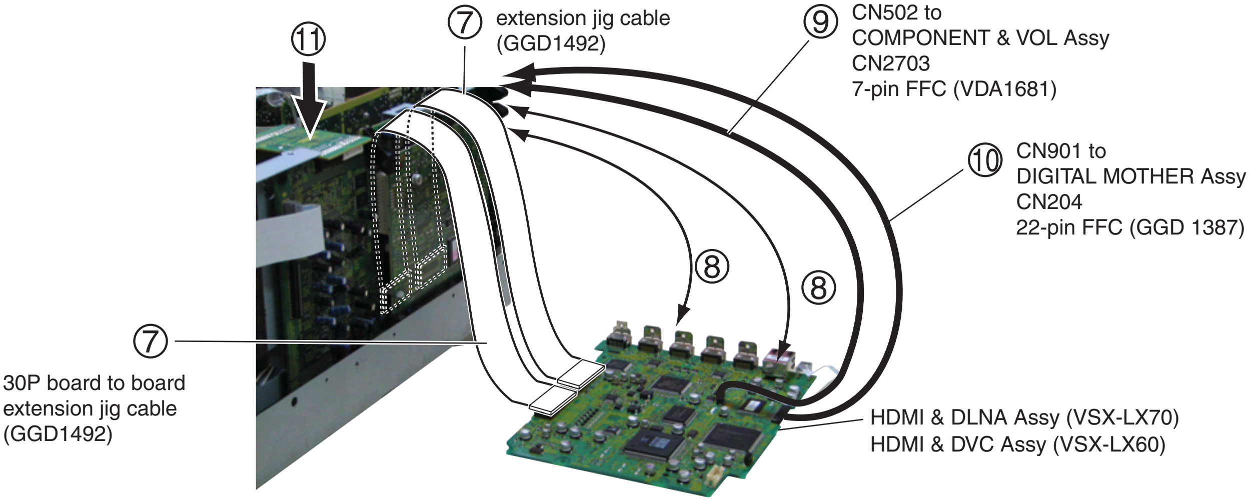
Jig cable
- 30P board to board extension jig cable (GGD1492) x2
- 7-pin FFC (VDA1681)
- 22-pin FFC (GGD1387)

[Procedures]

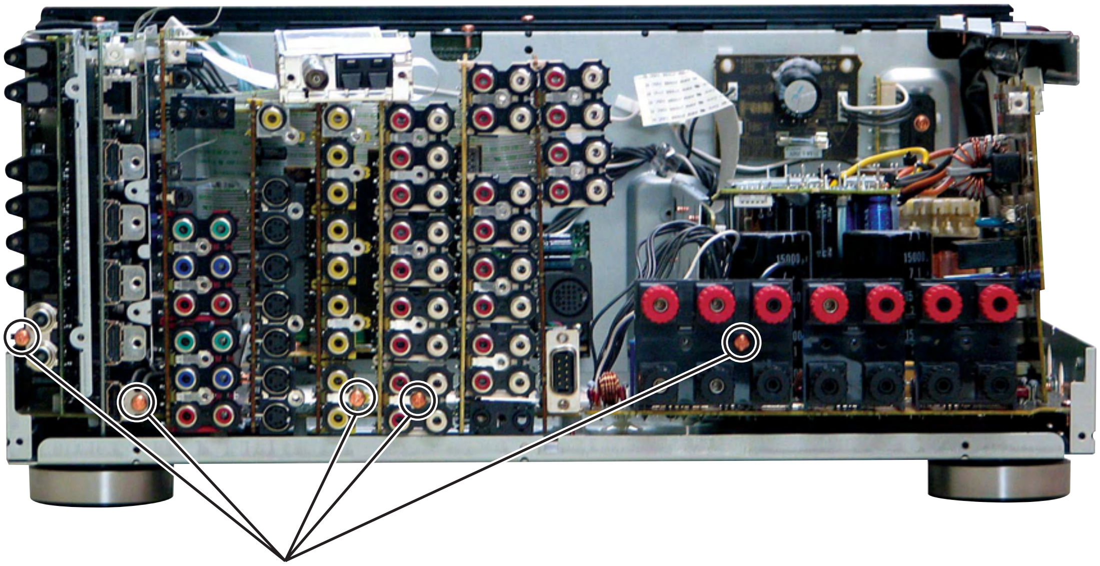
① Remove the bonnet.
② Remove the rear panel (Refer to P.84)
③ Remove the BRIDGE1 Assy.
④ Disconnect the two flexible cables and connector.
⑤ Remove the HDMI & DLNA Assy.
⑥ Remove the HDMI shield.


⑤
④
②
④
③
④
HDMI Shield
BRIDGE1 Assy
HDMI & DLNA Assy

⑦ Connect the two extension jig cables.
⑧ Connect a cable between the HDMI connector and the chassis.
⑨ Connect a cable between CN502 and COMPONENT & VOL Assy (CN2703).
⑩ Connect a cable between CN901 and DIGITAL MOTHER Assy (CN204).
⑪ Connect the BRIDGE1 Assy.


⑪
⑦ 30P board to board extension jig cable (GGD1492)
⑨ CN502 to COMPONENT & VOL Assy CN2703 7-pin FFC (VDA1681)
⑩ CN901 to DIGITAL MOTHER Assy CN204 22-pin FFC (GGD 1387)
⑧
⑧
⑦
30P board to board extension jig cable (GGD1492)
HDMI & DLNA Assy (VSX-LX70)
HDMI & DVC Assy (VSX-LX60)

Note : As mentioned below, detach the rear panel, re-fasten the screws at the corresponding points, and connect the chassis to the ground.

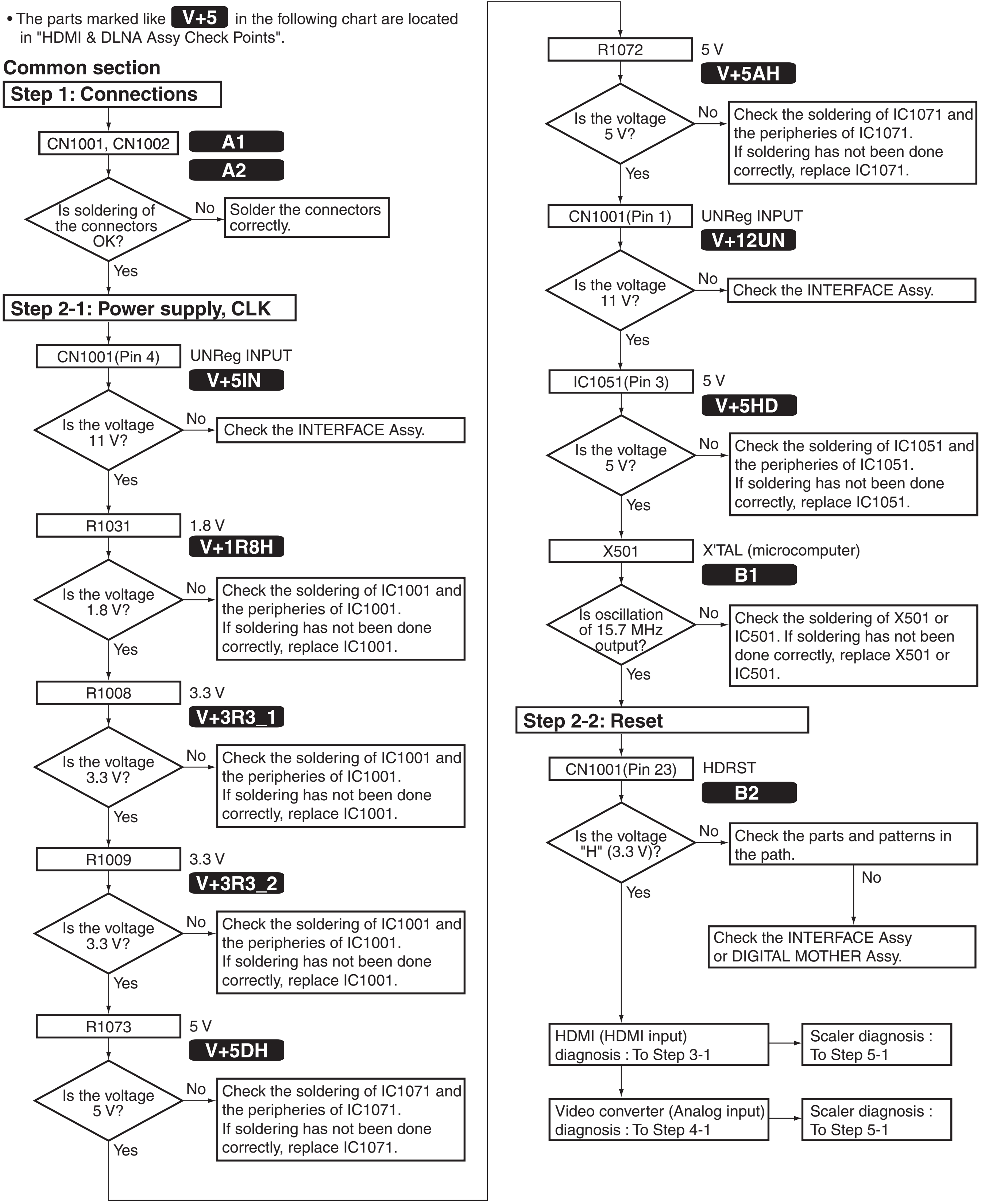


Points to be connected to the chassis

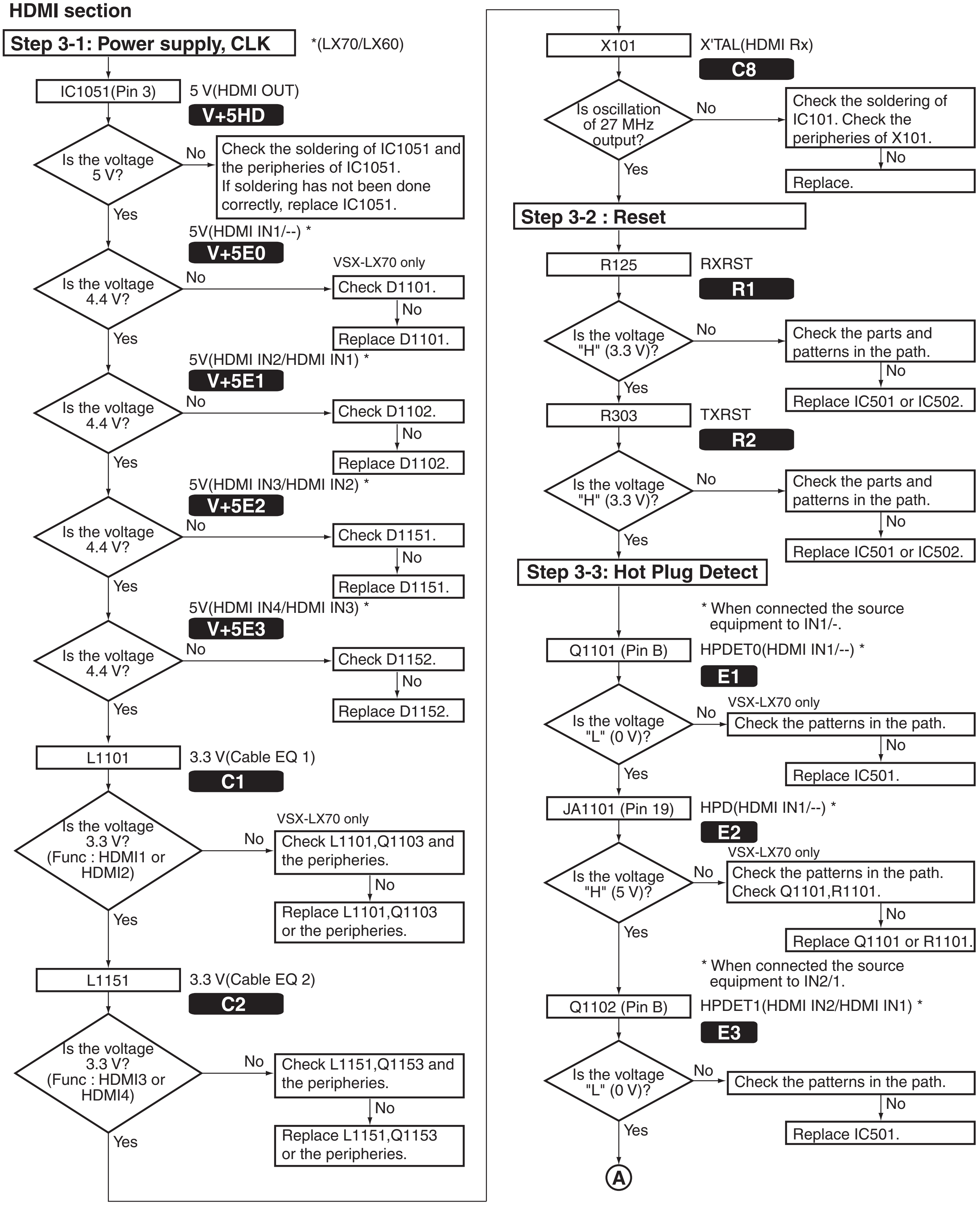
HDMI Troubleshooting

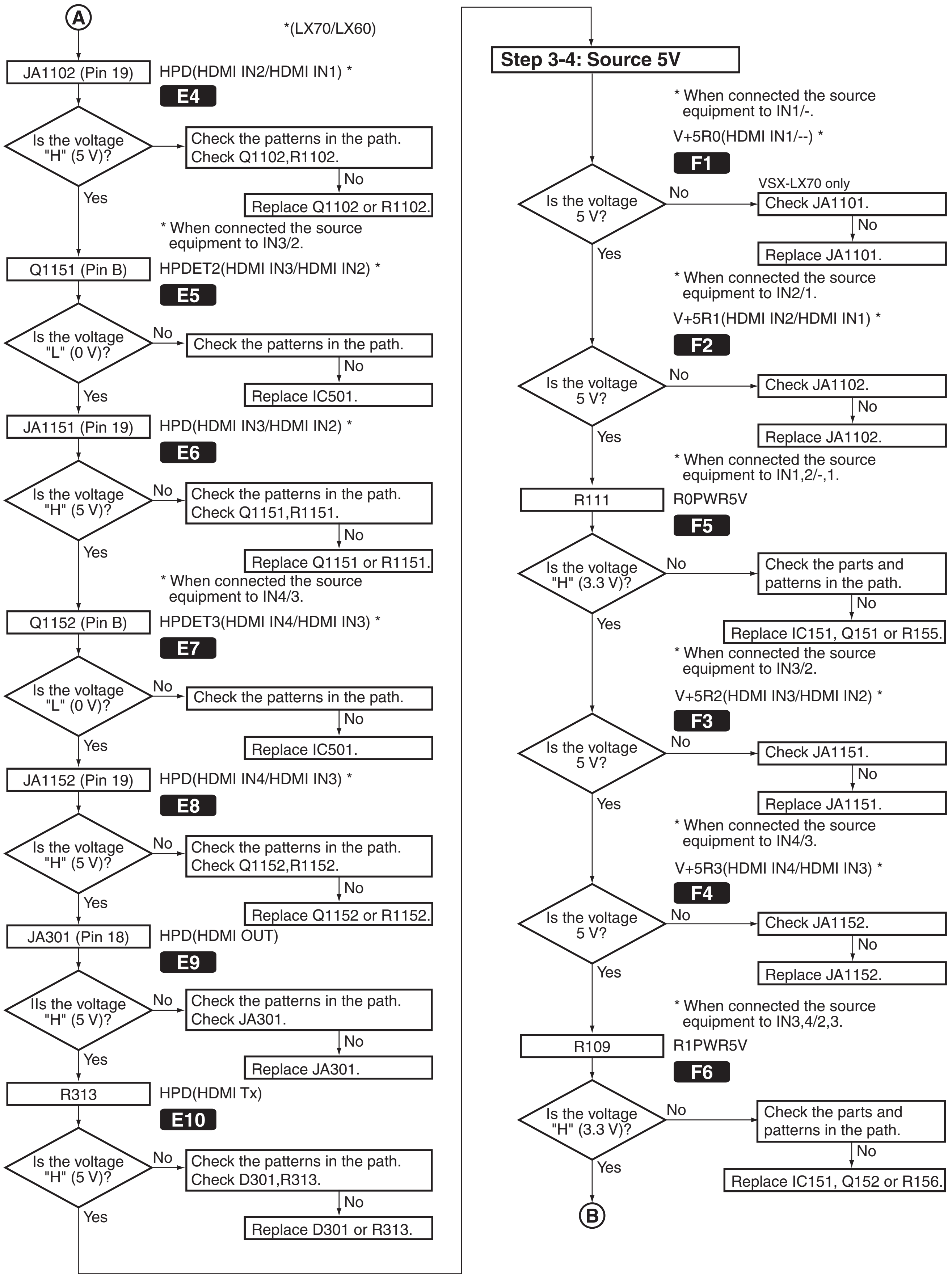
- The parts marked like **V+5** in the following chart are located in "HDMI & DLNA Assy Check Points".

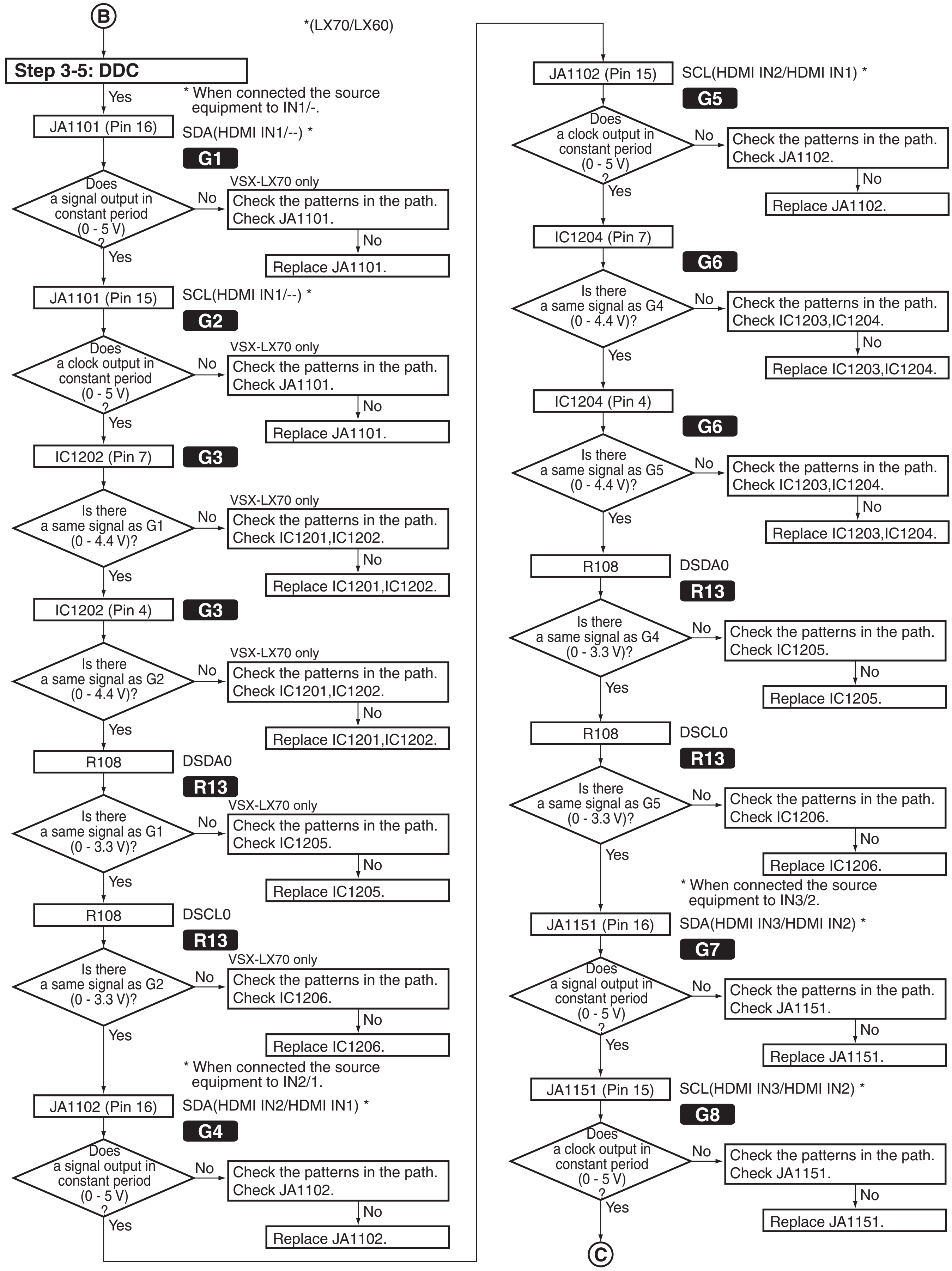
Common section

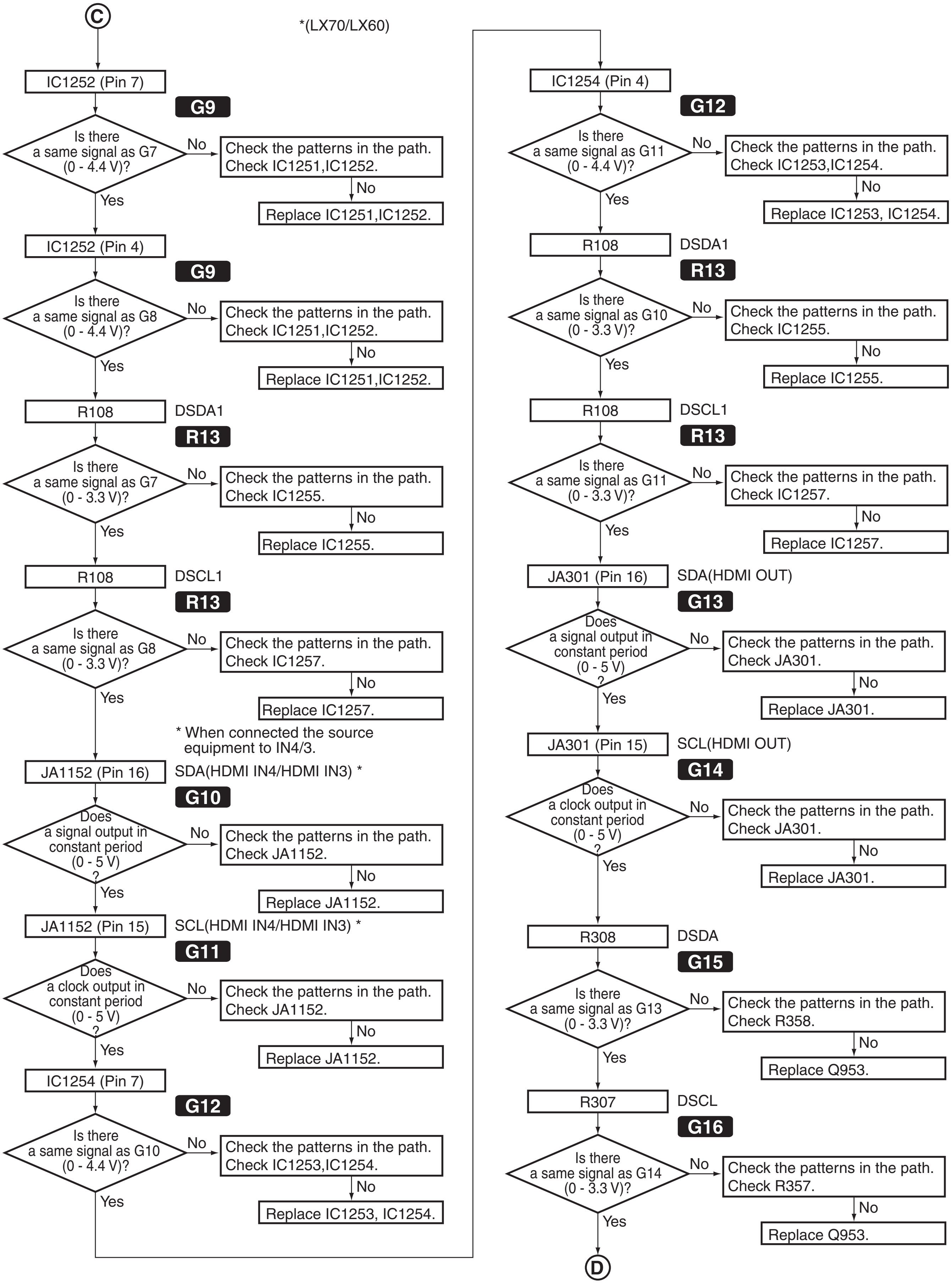

Step 1: Connections
CN1001, CN1002
A1
A2
Is soldering of the connectors OK?
No
Solder the connectors correctly.
Yes
Step 2-1: Power supply, CLK
CN1001(Pin 4)
UNReg INPUT
V+5IN
Is the voltage 11 V?
No
Check the INTERFACE Assy.
Yes
R1031
1.8 V
V+1R8H
Is the voltage 1.8 V?
No
Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
Yes
R1008
3.3 V
V+3R3_1
Is the voltage 3.3 V?
No
Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
Yes
R1009
3.3 V
V+3R3_2
Is the voltage 3.3 V?
No
Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
Yes
R1073
5 V
V+5DH
Is the voltage 5 V?
No
Check the soldering of IC1071 and the peripheries of IC1071. If soldering has not been done correctly, replace IC1071.
Yes
R1072
5 V
V+5AH
Is the voltage 5 V?
No
Check the soldering of IC1071 and the peripheries of IC1071. If soldering has not been done correctly, replace IC1071.
Yes
CN1001(Pin 1)
UNReg INPUT
V+12UN
Is the voltage 11 V?
No
Check the INTERFACE Assy.
Yes
IC1051(Pin 3)
5 V
V+5HD
Is the voltage 5 V?
No
Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
Yes
X501
X'TAL (microcomputer)
B1
Is oscillation of 15.7 MHz output?
No
Check the soldering of X501 or IC501. If soldering has not been done correctly, replace X501 or IC501.
Yes
Step 2-2: Reset
CN1001(Pin 23)
HDRST
B2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Check the INTERFACE Assy or DIGITAL MOTHER Assy.
Yes
HDMI (HDMI input) diagnosis : To Step 3-1
Scaler diagnosis : To Step 5-1
Video converter (Analog input) diagnosis : To Step 4-1
Scaler diagnosis : To Step 5-1

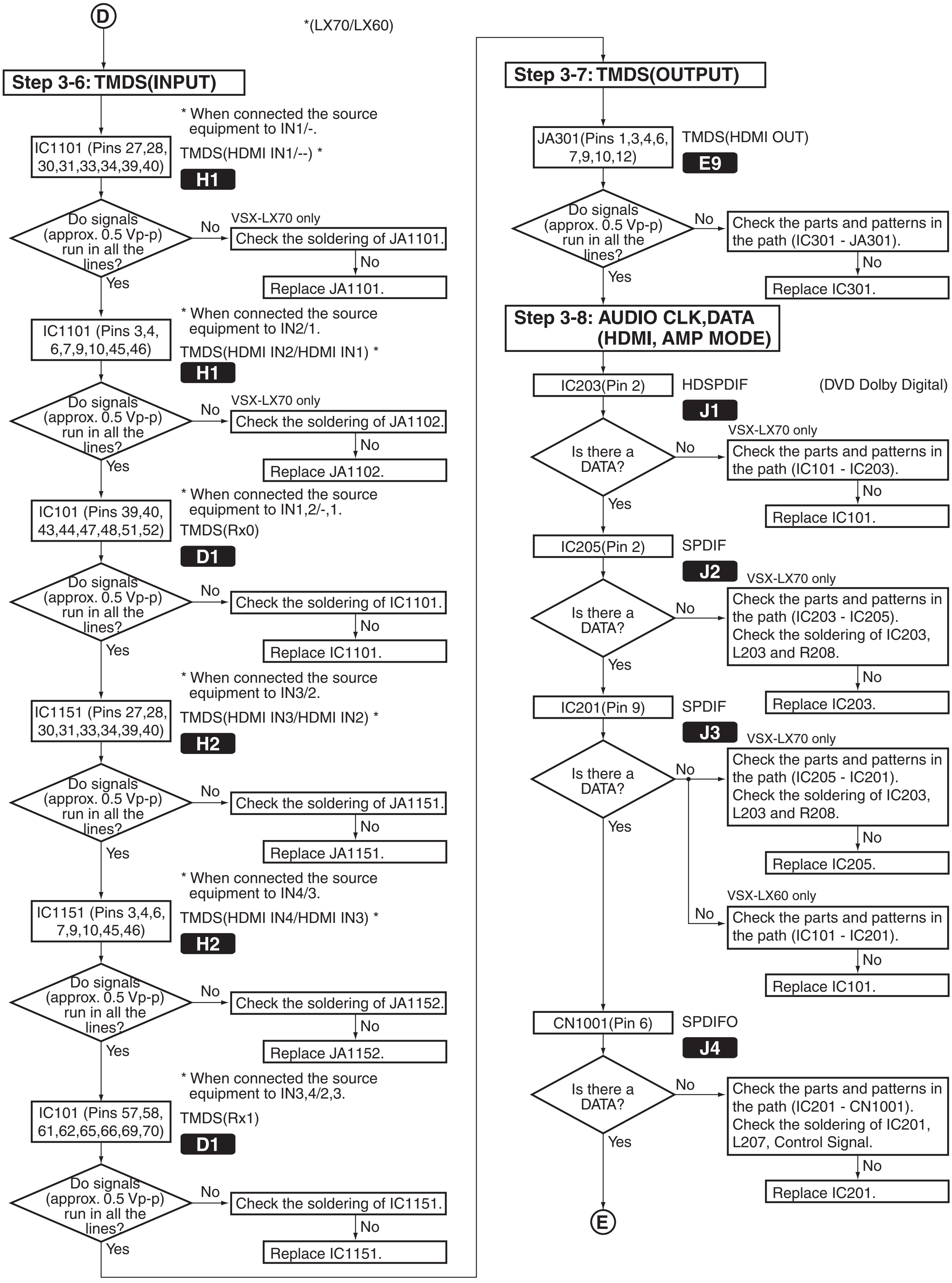
HDMI section

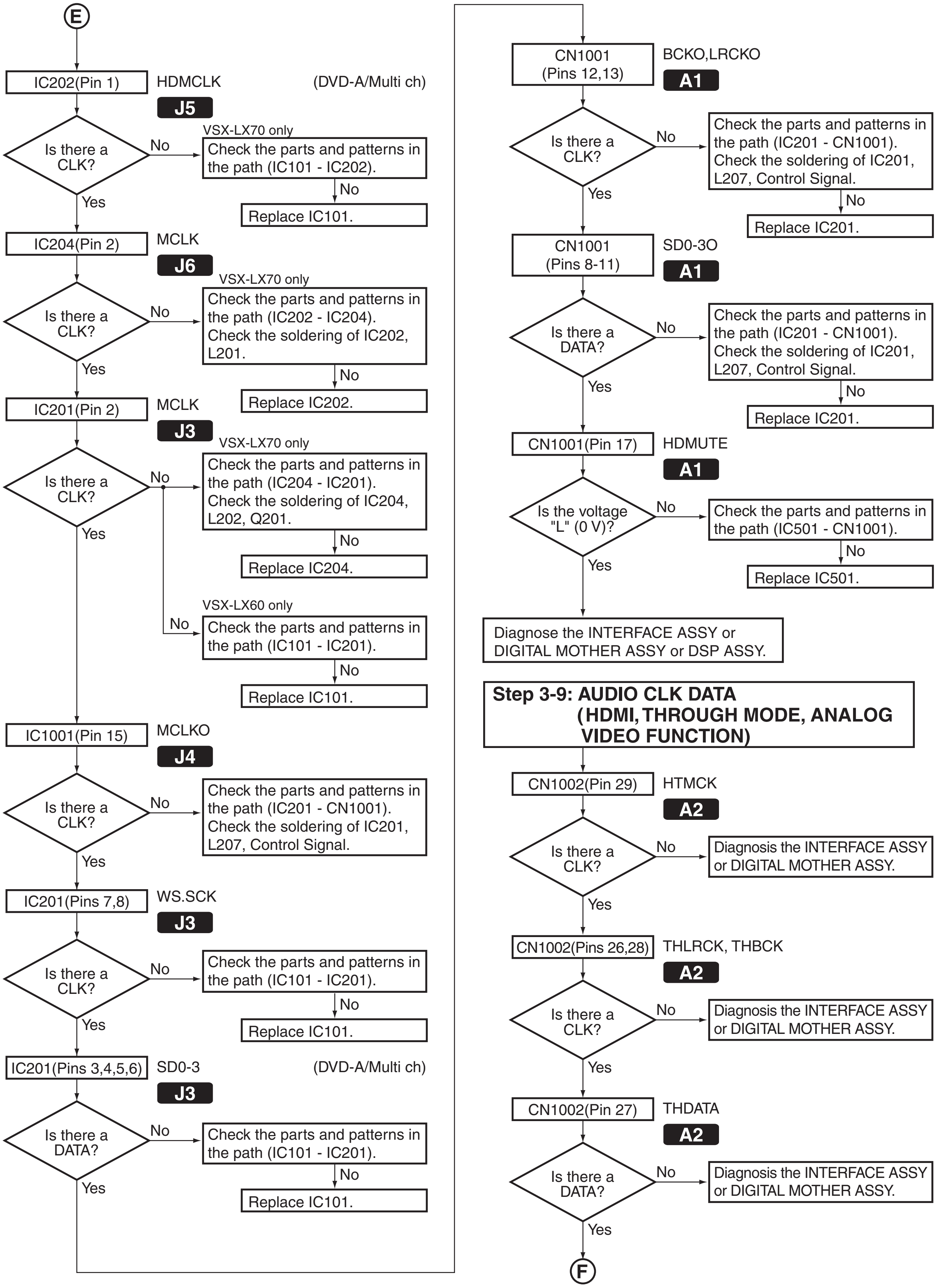

Step 3-1: Power supply, CLK
*(LX70/LX60)
IC1051(Pin 3)
5 V(HDMI OUT)
V+5HD
Is the voltage 5 V?
No
Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
Yes
5V(HDMI IN1/--) *
V+5E0
VSX-LX70 only
Is the voltage 4.4 V?
No
Check D1101.
No
Replace D1101.
Yes
5V(HDMI IN2/HDMI IN1) *
V+5E1
Is the voltage 4.4 V?
No
Check D1102.
No
Replace D1102.
Yes
5V(HDMI IN3/HDMI IN2) *
V+5E2
Is the voltage 4.4 V?
No
Check D1151.
No
Replace D1151.
Yes
5V(HDMI IN4/HDMI IN3) *
V+5E3
Is the voltage 4.4 V?
No
Check D1152.
No
Replace D1152.
Yes
L1101
3.3 V(Cable EQ 1)
C1
VSX-LX70 only
Is the voltage 3.3 V? (Func : HDMI1 or HDMI2)
No
Check L1101,Q1103 and the peripheries.
No
Replace L1101,Q1103 or the peripheries.
Yes
L1151
3.3 V(Cable EQ 2)
C2
Is the voltage 3.3 V? (Func : HDMI3 or HDMI4)
No
Check L1151,Q1153 and the peripheries.
No
Replace L1151,Q1153 or the peripheries.
Yes
X101
X'TAL(HDMI Rx)
C8
Is oscillation of 27 MHz output?
No
Check the soldering of IC101. Check the peripheries of X101.
No
Replace.
Yes
Step 3-2 : Reset
R125
RXRST
R1
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
R303
TXRST
R2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
Step 3-3: Hot Plug Detect
* When connected the source equipment to IN1/-.
Q1101 (Pin B)
HPDET0(HDMI IN1/--) *
E1
VSX-LX70 only
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1101 (Pin 19)
HPD(HDMI IN1/--) *
E2
VSX-LX70 only
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check Q1101,R1101.
No
Replace Q1101 or R1101.
Yes
* When connected the source equipment to IN2/1.
Q1102 (Pin B)
HPDET1(HDMI IN2/HDMI IN1) *
E3
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
A


A
*(LX70/LX60)
JA1102 (Pin 19)
HPD(HDMI IN2/HDMI IN1) *
E4
Is the voltage "H" (5 V)?
Check the patterns in the path. Check Q1102,R1102.
No
Replace Q1102 or R1102.
Yes
* When connected the source equipment to IN3/2.
Q1151 (Pin B)
HPDET2(HDMI IN3/HDMI IN2) *
E5
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1151 (Pin 19)
HPD(HDMI IN3/HDMI IN2) *
E6
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check Q1151,R1151.
No
Replace Q1151 or R1151.
Yes
* When connected the source equipment to IN4/3.
Q1152 (Pin B)
HPDET3(HDMI IN4/HDMI IN3) *
E7
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1152 (Pin 19)
HPD(HDMI IN4/HDMI IN3) *
E8
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check Q1152,R1152.
No
Replace Q1152 or R1152.
Yes
JA301 (Pin 18)
HPD(HDMI OUT)
E9
IIs the voltage "H" (5 V)?
No
Check the patterns in the path. Check JA301.
No
Replace JA301.
Yes
R313
HPD(HDMI Tx)
E10
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check D301,R313.
No
Replace D301 or R313.
Yes
Step 3-4: Source 5V
* When connected the source equipment to IN1/-.
V+5R0(HDMI IN1/--) *
F1
Is the voltage 5 V?
No
VSX-LX70 only
Check JA1101.
No
Replace JA1101.
Yes
* When connected the source equipment to IN2/1.
V+5R1(HDMI IN2/HDMI IN1) *
F2
Is the voltage 5 V?
No
Check JA1102.
No
Replace JA1102.
Yes
* When connected the source equipment to IN1,2/-,1.
R111
R0PWR5V
F5
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC151, Q151 or R155.
Yes
* When connected the source equipment to IN3/2.
V+5R2(HDMI IN3/HDMI IN2) *
F3
Is the voltage 5 V?
No
Check JA1151.
No
Replace JA1151.
Yes
* When connected the source equipment to IN4/3.
V+5R3(HDMI IN4/HDMI IN3) *
F4
Is the voltage 5 V?
No
Check JA1152.
No
Replace JA1152.
Yes
* When connected the source equipment to IN3,4/2,3.
R109
R1PWR5V
F6
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC151, Q152 or R156.
Yes
B


B
*(LX70/LX60)
Step 3-5: DDC
Yes
* When connected the source equipment to IN1/-.
JA1101 (Pin 16)
SDA(HDMI IN1/--) *
G1
Does a signal output in constant period (0 - 5 V)?
No
VSX-LX70 only
Check the patterns in the path. Check JA1101.
No
Replace JA1101.
Yes
JA1101 (Pin 15)
SCL(HDMI IN1/--) *
G2
Does a clock output in constant period (0 - 5 V)?
No
VSX-LX70 only
Check the patterns in the path. Check JA1101.
No
Replace JA1101.
Yes
IC1202 (Pin 7)
G3
Is there a same signal as G1 (0 - 4.4 V)?
No
VSX-LX70 only
Check the patterns in the path. Check IC1201,IC1202.
No
Replace IC1201,IC1202.
Yes
IC1202 (Pin 4)
G3
Is there a same signal as G2 (0 - 4.4 V)?
No
VSX-LX70 only
Check the patterns in the path. Check IC1201,IC1202.
No
Replace IC1201,IC1202.
Yes
R108
DSDA0
R13
Is there a same signal as G1 (0 - 3.3 V)?
No
VSX-LX70 only
Check the patterns in the path. Check IC1205.
No
Replace IC1205.
Yes
R108
DSCL0
R13
Is there a same signal as G2 (0 - 3.3 V)?
No
VSX-LX70 only
Check the patterns in the path. Check IC1206.
No
Replace IC1206.
Yes
* When connected the source equipment to IN2/1.
JA1102 (Pin 16)
SDA(HDMI IN2/HDMI IN1) *
G4
Does a signal output in constant period (0 - 5 V)?
No
Check the patterns in the path. Check JA1102.
No
Replace JA1102.
Yes
JA1102 (Pin 15)
SCL(HDMI IN2/HDMI IN1) *
G5
Does a clock output in constant period (0 - 5 V)?
No
Check the patterns in the path. Check JA1102.
No
Replace JA1102.
Yes
IC1204 (Pin 7)
G6
Is there a same signal as G4 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1203,IC1204.
No
Replace IC1203,IC1204.
Yes
IC1204 (Pin 4)
G6
Is there a same signal as G5 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1203,IC1204.
No
Replace IC1203,IC1204.
Yes
R108
DSDA0
R13
Is there a same signal as G4 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1205.
No
Replace IC1205.
Yes
R108
DSCL0
R13
Is there a same signal as G5 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1206.
No
Replace IC1206.
Yes
* When connected the source equipment to IN3/2.
JA1151 (Pin 16)
SDA(HDMI IN3/HDMI IN2) *
G7
Does a signal output in constant period (0 - 5 V)?
No
Check the patterns in the path. Check JA1151.
No
Replace JA1151.
Yes
JA1151 (Pin 15)
SCL(HDMI IN3/HDMI IN2) *
G8
Does a clock output in constant period (0 - 5 V)?
No
Check the patterns in the path. Check JA1151.
No
Replace JA1151.
Yes
C


C
*(LX70/LX60)
IC1252 (Pin 7)
G9
Is there a same signal as G7 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1251,IC1252.
No
Replace IC1251,IC1252.
Yes
IC1252 (Pin 4)
G9
Is there a same signal as G8 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1251,IC1252.
No
Replace IC1251,IC1252.
Yes
R108
DSDA1
R13
Is there a same signal as G7 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1255.
No
Replace IC1255.
Yes
R108
DSCL1
R13
Is there a same signal as G8 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1257.
No
Replace IC1257.
Yes
* When connected the source equipment to IN4/3.
JA1152 (Pin 16)
SDA(HDMI IN4/HDMI IN3) *
G10
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1152.
No
Replace JA1152.
Yes
JA1152 (Pin 15)
SCL(HDMI IN4/HDMI IN3) *
G11
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1152.
No
Replace JA1152.
Yes
IC1254 (Pin 7)
G12
Is there a same signal as G10 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1253,IC1254.
No
Replace IC1253, IC1254.
Yes
IC1254 (Pin 4)
G12
Is there a same signal as G11 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1253,IC1254.
No
Replace IC1253, IC1254.
Yes
R108
DSDA1
R13
Is there a same signal as G10 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1255.
No
Replace IC1255.
Yes
R108
DSCL1
R13
Is there a same signal as G11 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1257.
No
Replace IC1257.
Yes
JA301 (Pin 16)
SDA(HDMI OUT)
G13
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA301.
No
Replace JA301.
Yes
JA301 (Pin 15)
SCL(HDMI OUT)
G14
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA301.
No
Replace JA301.
Yes
R308
DSDA
G15
Is there a same signal as G13 (0 - 3.3 V)?
No
Check the patterns in the path. Check R358.
No
Replace Q953.
Yes
R307
DSCL
G16
Is there a same signal as G14 (0 - 3.3 V)?
No
Check the patterns in the path. Check R357.
No
Replace Q953.
Yes
D


D
*(LX70/LX60)
Step 3-6: TMDS(INPUT)
* When connected the source equipment to IN1/-.
IC1101 (Pins 27,28, 30,31,33,34,39,40)
TMDS(HDMI IN1/--) *
H1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
VSX-LX70 only
Check the soldering of JA1101.
No
Replace JA1101.
Yes
* When connected the source equipment to IN2/1.
IC1101 (Pins 3,4, 6,7,9,10,45,46)
TMDS(HDMI IN2/HDMI IN1) *
H1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
VSX-LX70 only
Check the soldering of JA1102.
No
Replace JA1102.
Yes
* When connected the source equipment to IN1,2/-,1.
IC101 (Pins 39,40, 43,44,47,48,51,52)
TMDS(Rx0)
D1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of IC1101.
No
Replace IC1101.
Yes
* When connected the source equipment to IN3/2.
IC1151 (Pins 27,28, 30,31,33,34,39,40)
TMDS(HDMI IN3/HDMI IN2) *
H2
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of JA1151.
No
Replace JA1151.
Yes
* When connected the source equipment to IN4/3.
IC1151 (Pins 3,4,6, 7,9,10,45,46)
TMDS(HDMI IN4/HDMI IN3) *
H2
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of JA1152.
No
Replace JA1152.
Yes
* When connected the source equipment to IN3,4/2,3.
IC101 (Pins 57,58, 61,62,65,66,69,70)
TMDS(Rx1)
D1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of IC1151.
No
Replace IC1151.
Yes
Step 3-7: TMDS(OUTPUT)
JA301(Pins 1,3,4,6, 7,9,10,12)
TMDS(HDMI OUT)
E9
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the parts and patterns in the path (IC301 - JA301).
No
Replace IC301.
Yes
Step 3-8: AUDIO CLK,DATA (HDMI, AMP MODE)
IC203(Pin 2)
HDSPDIF
(DVD Dolby Digital)
J1
Is there a DATA?
No
VSX-LX70 only
Check the parts and patterns in the path (IC101 - IC203).
No
Replace IC101.
Yes
IC205(Pin 2)
SPDIF
J2
Is there a DATA?
No
VSX-LX70 only
Check the parts and patterns in the path (IC203 - IC205). Check the soldering of IC203, L203 and R208.
No
Replace IC203.
Yes
IC201(Pin 9)
SPDIF
J3
Is there a DATA?
No
VSX-LX70 only
Check the parts and patterns in the path (IC205 - IC201). Check the soldering of IC203, L203 and R208.
No
Replace IC205.
No
VSX-LX60 only
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
CN1001(Pin 6)
SPDIFO
J4
Is there a DATA?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
No
Replace IC201.
Yes
E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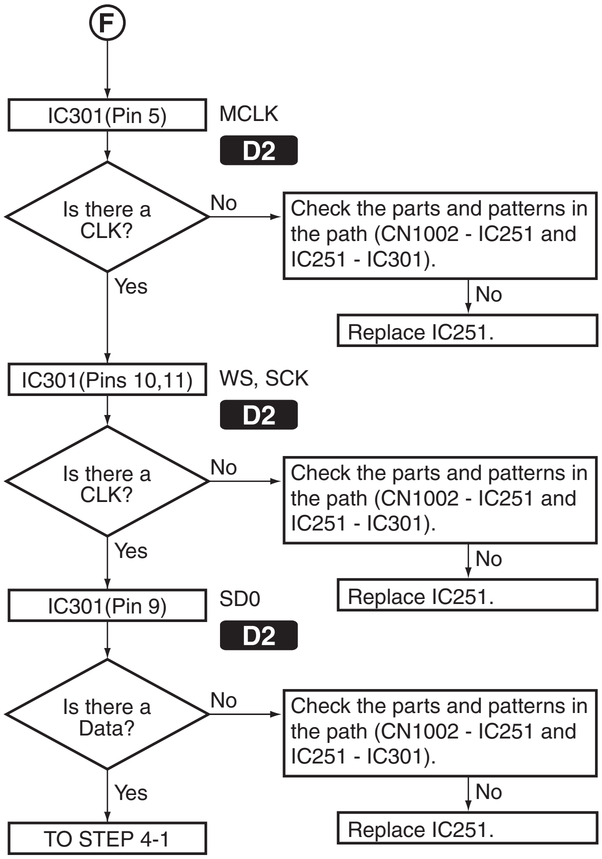
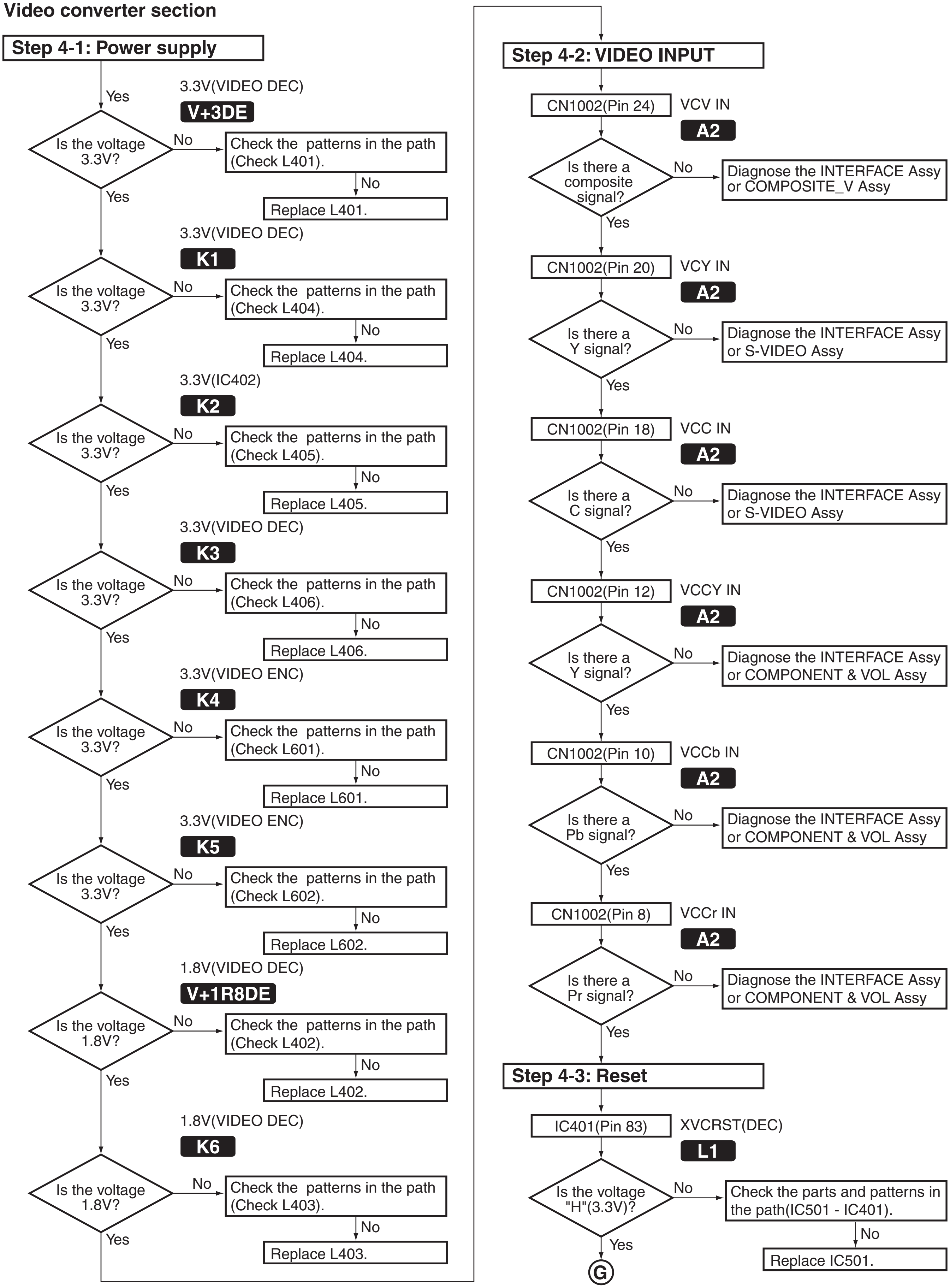
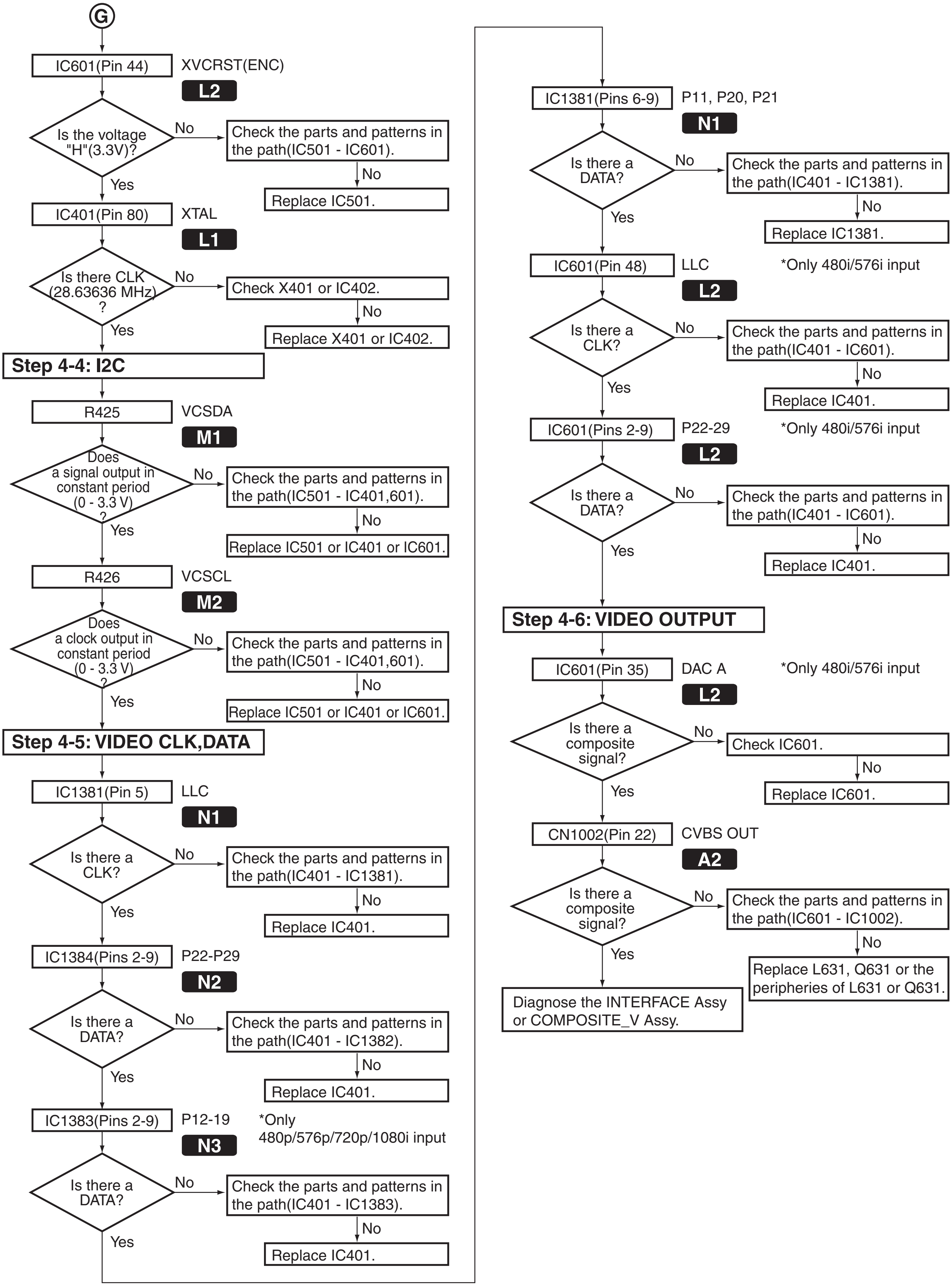
IC202(Pin 1)
HDMCLK
(DVD-A/Multi ch)
J5
Is there a CLK?
No
VSX-LX70 only
Check the parts and patterns in the path (IC101 - IC202).
No
Replace IC101.
Yes
IC204(Pin 2)
MCLK
J6
Is there a CLK?
No
VSX-LX70 only
Check the parts and patterns in the path (IC202 - IC204). Check the soldering of IC202, L201.
No
Replace IC202.
Yes
IC201(Pin 2)
MCLK
J3
Is there a CLK?
No
VSX-LX70 only
Check the parts and patterns in the path (IC204 - IC201). Check the soldering of IC204, L202, Q201.
No
Replace IC204.
No
VSX-LX60 only
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
IC1001(Pin 15)
MCLKO
J4
Is there a CLK?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
Yes
IC201(Pins 7,8)
WS.SCK
J3
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
IC201(Pins 3,4,5,6)
SD0-3
(DVD-A/Multi ch)
J3
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
CN1001 (Pins 12,13)
BCKO,LRCKO
A1
Is there a CLK?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
No
Replace IC201.
Yes
CN1001 (Pins 8-11)
SD0-3O
A1
Is there a DATA?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
No
Replace IC201.
Yes
CN1001(Pin 17)
HDMUTE
A1
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 - CN1001).
No
Replace IC501.
Yes
Diagnose the INTERFACE ASSY or DIGITAL MOTHER ASSY or DSP ASSY.
CN1002(Pin 29)
HTMCK
A2
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or DIGITAL MOTHER ASSY.
Yes
CN1002(Pins 26,28)
THLRCK, THBCK
A2
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or DIGITAL MOTHER ASSY.
Yes
CN1002(Pin 27)
THDATA
A2
Is there a DATA?
No
Diagnosis the INTERFACE ASSY or DIGITAL MOTHER ASSY.
Yes
F

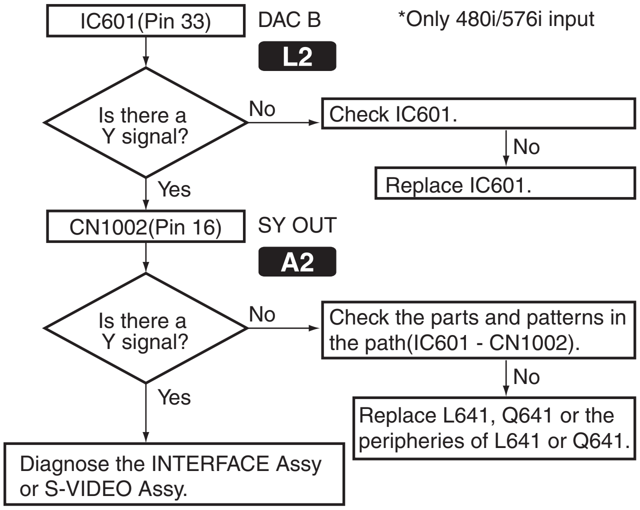
Step 3-9: AUDIO CLK DATA (HDMI, THROUGH MODE, ANALOG VIDEO FUNCTION)

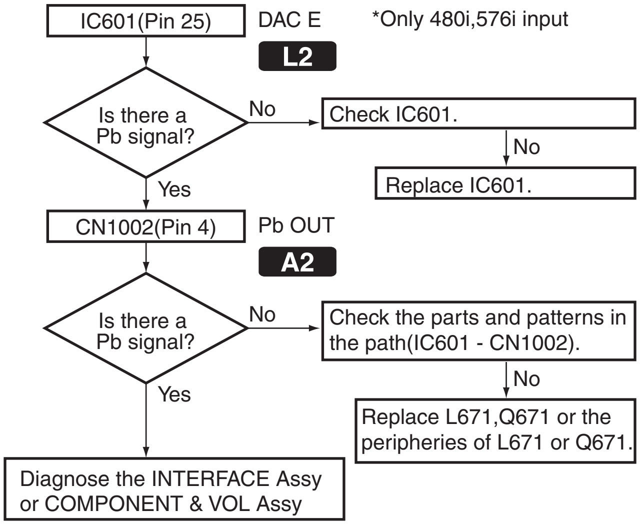

F
IC301(Pin 5)
MCLK
D2
Is there a CLK?
No
Check the parts and patterns in the path (CN1002 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC301(Pins 10,11)
WS, SCK
D2
Is there a CLK?
No
Check the parts and patterns in the path (CN1002 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC301(Pin 9)
SD0
D2
Is there a Data?
No
Check the parts and patterns in the path (CN1002 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
TO STEP 4-1

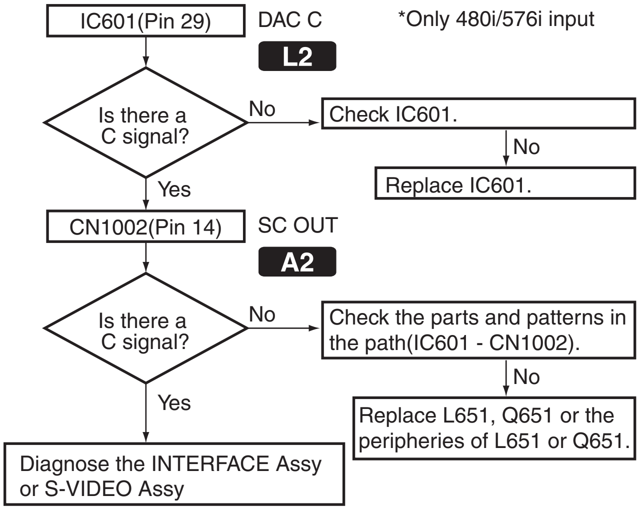
Video converter section

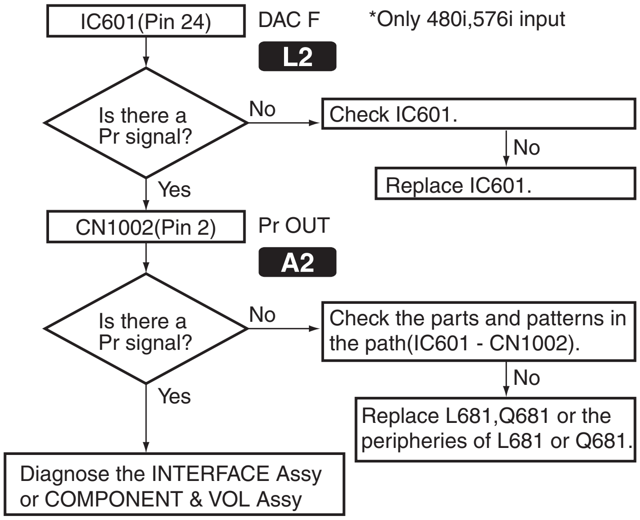

Step 4-1: Power supply
Yes
3.3V(VIDEO DEC)
V+3DE
Is the voltage 3.3V?
No
Check the patterns in the path (Check L401).
No
Replace L401.
Yes
3.3V(VIDEO DEC)
K1
Is the voltage 3.3V?
No
Check the patterns in the path (Check L404).
No
Replace L404.
Yes
3.3V(IC402)
K2
Is the voltage 3.3V?
No
Check the patterns in the path (Check L405).
No
Replace L405.
Yes
3.3V(VIDEO DEC)
K3
Is the voltage 3.3V?
No
Check the patterns in the path (Check L406).
No
Replace L406.
Yes
3.3V(VIDEO ENC)
K4
Is the voltage 3.3V?
No
Check the patterns in the path (Check L601).
No
Replace L601.
Yes
3.3V(VIDEO ENC)
K5
Is the voltage 3.3V?
No
Check the patterns in the path (Check L602).
No
Replace L602.
Yes
1.8V(VIDEO DEC)
V+1R8DE
Is the voltage 1.8V?
No
Check the patterns in the path (Check L402).
No
Replace L402.
Yes
1.8V(VIDEO DEC)
K6
Is the voltage 1.8V?
No
Check the patterns in the path (Check L403).
No
Replace L403.
Yes
Step 4-2: VIDEO INPUT
CN1002(Pin 24)
VCV IN
A2
Is there a composite signal?
No
Diagnose the INTERFACE Assy or COMPOSITE_V Assy
Yes
CN1002(Pin 20)
VCY IN
A2
Is there a Y signal?
No
Diagnose the INTERFACE Assy or S-VIDEO Assy
Yes
CN1002(Pin 18)
VCC IN
A2
Is there a C signal?
No
Diagnose the INTERFACE Assy or S-VIDEO Assy
Yes
CN1002(Pin 12)
VCCY IN
A2
Is there a Y signal?
No
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy
Yes
CN1002(Pin 10)
VCCb IN
A2
Is there a Pb signal?
No
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy
Yes
CN1002(Pin 8)
VCCr IN
A2
Is there a Pr signal?
No
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy
Yes
Step 4-3: Reset
IC401(Pin 83)
XVCRST(DEC)
L1
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC401).
No
Replace IC501.
Yes
G

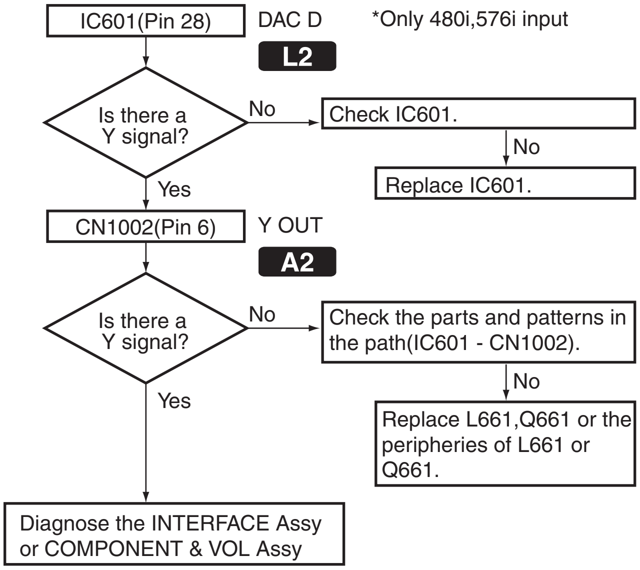

G
IC601(Pin 44)
XVCRST(ENC)
L2
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC601).
No
Replace IC501.
Yes
IC401(Pin 80)
XTAL
L1
Is there CLK (28.63636 MHz) ?
No
Check X401 or IC402.
No
Replace X401 or IC402.
Yes
Step 4-4: I2C
R425
VCSDA
M1
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401,601).
No
Replace IC501 or IC401 or IC601.
Yes
R426
VCSCL
M2
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401,601).
No
Replace IC501 or IC401 or IC601.
Yes
Step 4-5: VIDEO CLK,DATA
IC1381(Pin 5)
LLC
N1
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC1381).
No
Replace IC401.
Yes
IC1384(Pins 2-9)
P22-P29
N2
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1382).
No
Replace IC401.
Yes
IC1383(Pins 2-9)
P12-19
N3
*Only 480p/576p/720p/1080i input
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1383).
No
Replace IC401.
Yes
IC1381(Pins 6-9)
P11, P20, P21
N1
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1381).
No
Replace IC1381.
Yes
IC601(Pin 48)
LLC
*Only 480i/576i input
L2
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
IC601(Pins 2-9)
P22-29
*Only 480i/576i input
L2
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
Step 4-6: VIDEO OUTPUT
IC601(Pin 35)
DAC A
*Only 480i/576i input
L2
Is there a composite signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 22)
CVBS OUT
A2
Is there a composite signal?
No
Check the parts and patterns in the path(IC601 - IC1002).
No
Replace L631, Q631 or the peripheries of L631 or Q631.
Yes
Diagnose the INTERFACE Assy or COMPOSITE_V Assy.


IC601(Pin 33)
DAC B
*Only 480i/576i input
L2
Is there a Y signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 16)
SY OUT
A2
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L641, Q641 or the peripheries of L641 or Q641.
Yes
Diagnose the INTERFACE Assy or S-VIDEO Assy.

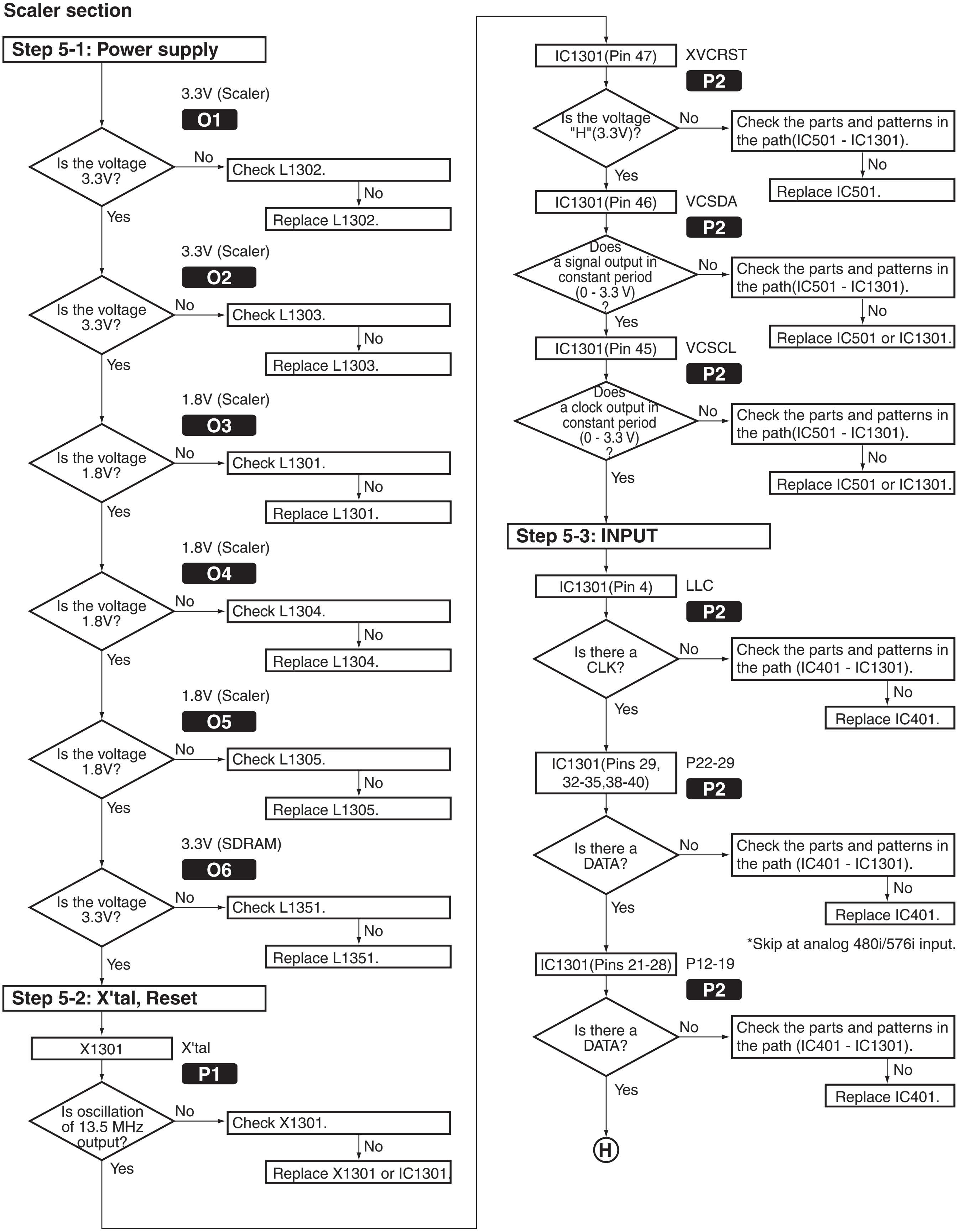

IC601(Pin 25)
DAC E
*Only 480i,576i input
L2
Is there a Pb signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 4)
Pb OUT
A2
Is there a Pb signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L671,Q671 or the peripheries of L671 or Q671.
Yes
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy

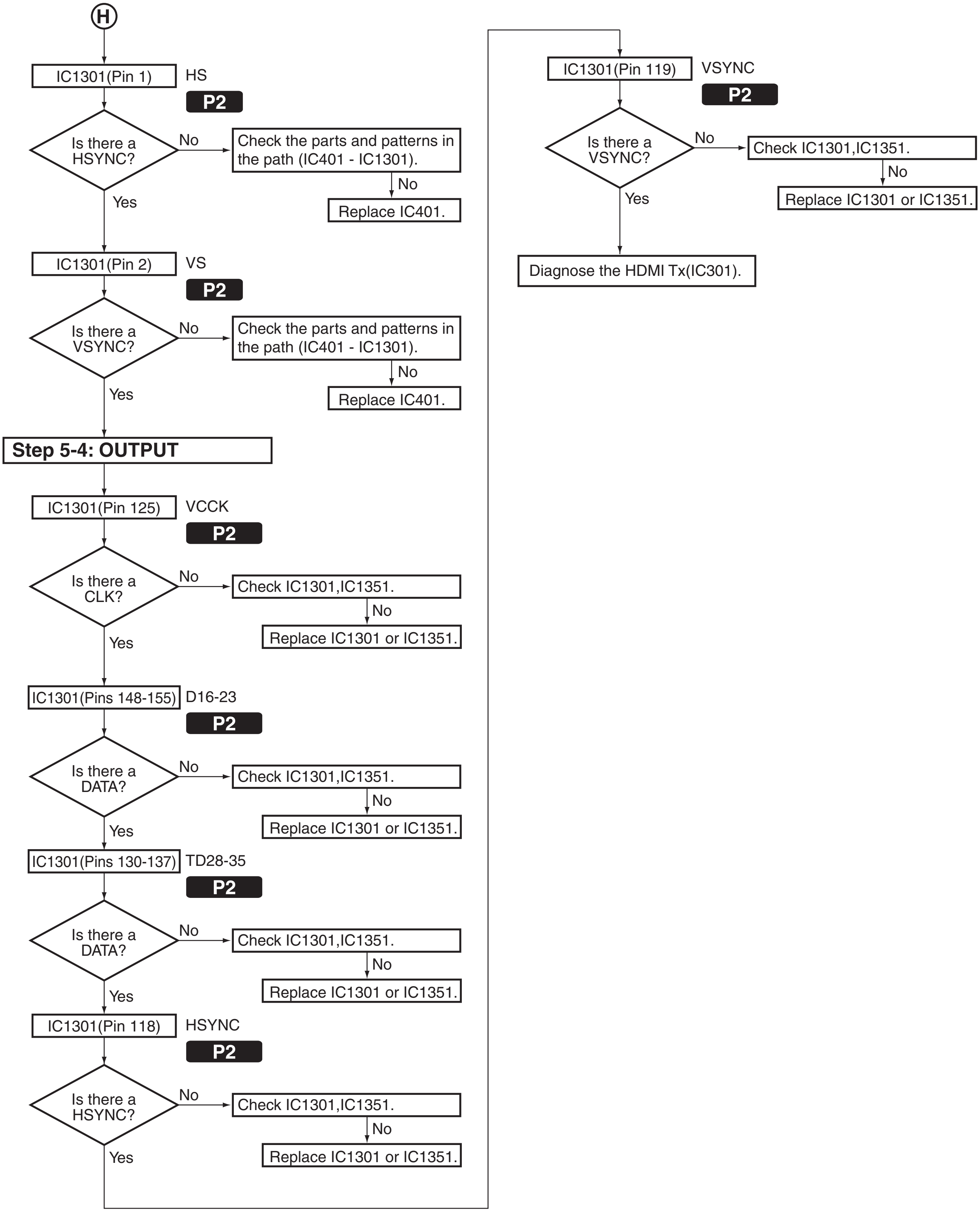

IC601(Pin 29)
DAC C
*Only 480i/576i input
L2
Is there a C signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 14)
SC OUT
A2
Is there a C signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L651, Q651 or the peripheries of L651 or Q651.
Yes
Diagnose the INTERFACE Assy or S-VIDEO Assy


IC601(Pin 24)
DAC F
*Only 480i,576i input
L2
Is there a Pr signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 2)
Pr OUT
A2
Is there a Pr signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L681,Q681 or the peripheries of L681 or Q681.
Yes
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy


IC601(Pin 28)
DAC D
*Only 480i,576i input
L2
Is there a Y signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 6)
Y OUT
A2
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L661,Q661 or the peripheries of L661 or Q661.
Yes
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy

Scaler section


Step 5-1: Power supply
3.3V (Scaler)
O1
Is the voltage 3.3V?
No
Check L1302.
No
Replace L1302.
Yes
3.3V (Scaler)
O2
Is the voltage 3.3V?
No
Check L1303.
No
Replace L1303.
Yes
1.8V (Scaler)
O3
Is the voltage 1.8V?
No
Check L1301.
No
Replace L1301.
Yes
1.8V (Scaler)
O4
Is the voltage 1.8V?
No
Check L1304.
No
Replace L1304.
Yes
1.8V (Scaler)
O5
Is the voltage 1.8V?
No
Check L1305.
No
Replace L1305.
Yes
3.3V (SDRAM)
O6
Is the voltage 3.3V?
No
Check L1351.
No
Replace L1351.
Yes
Step 5-2: X'tal, Reset
X1301
X'tal
P1
Is oscillation of 13.5 MHz output?
No
Check X1301.
No
Replace X1301 or IC1301.
Yes
IC1301(Pin 47)
XVCRST
P2
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC1301).
No
Replace IC501.
Yes
IC1301(Pin 46)
VCSDA
P2
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC1301).
No
Replace IC501 or IC1301.
Yes
IC1301(Pin 45)
VCSCL
P2
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC1301).
No
Replace IC501 or IC1301.
Yes
Step 5-3: INPUT
IC1301(Pin 4)
LLC
P2
Is there a CLK?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pins 29, 32-35,38-40)
P22-29
P2
Is there a DATA?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
*Skip at analog 480i/576i input.
Yes
IC1301(Pins 21-28)
P12-19
P2
Is there a DATA?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
H

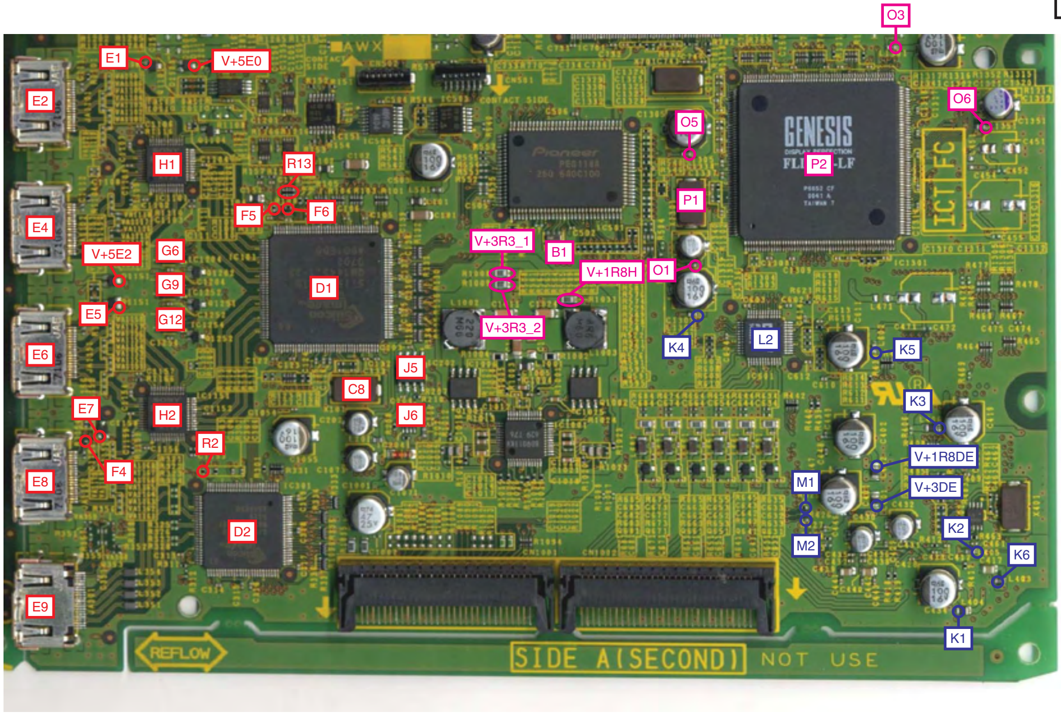

H
IC1301(Pin 1)
HS
P2
Is there a HSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pin 2)
VS
P2
Is there a VSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
Step 5-4: OUTPUT
IC1301(Pin 125)
VCCK
P2
Is there a CLK?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 148-155)
D16-23
P2
Is there a DATA?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 130-137)
TD28-35
P2
Is there a DATA?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 118)
HSYNC
P2
Is there a HSYNC?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 119)
VSYNC
P2
Is there a VSYNC?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
Diagnose the HDMI Tx(IC301).

HDMI & DLNA Assy Check Points

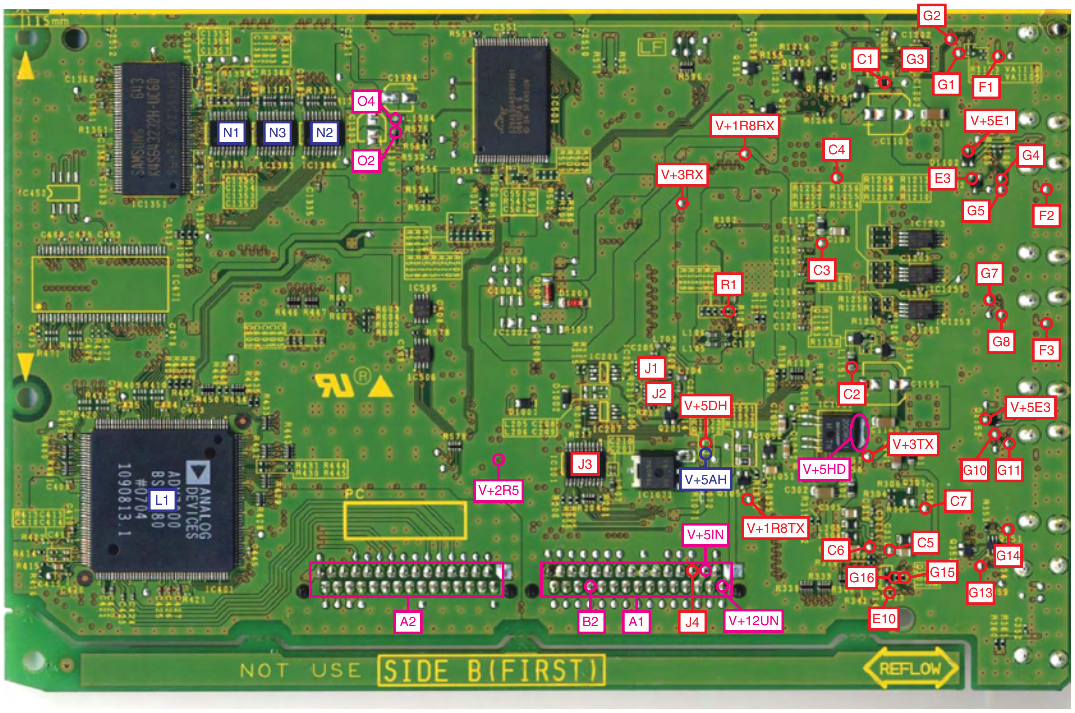
AJ HDMI & DLNA ASSY

🟪 Commonness
🟥 HDMI
🟦 Video Converter

SIDE A

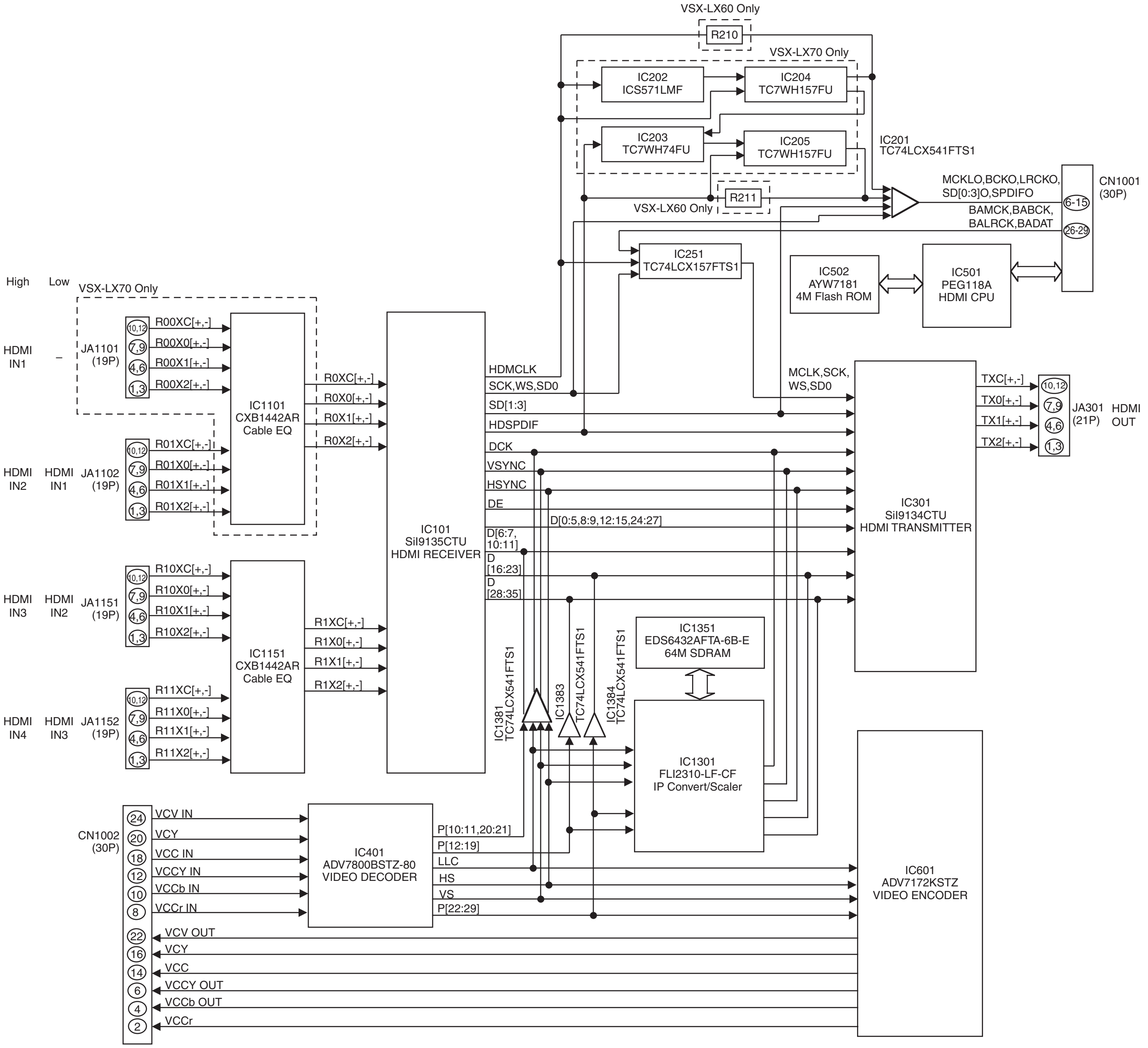

O3
E1
V+5E0
E2
O6
O5
GENESIS
H1
R13
P2
P1
F5
F6
E4
V+5E2
G6
V+3R3_1
B1
G9
D1
V+1R8H
O1
E5
G12
V+3R3_2
K4
L2
E6
K5
J5
C8
J6
K3
E7
H2
R2
V+1R8DE
E8
F4
M1
V+3DE
D2
K2
M2
K6
E9
K1
REFLOW
SIDE A(SECOND) NOT USE

SIDE B


G2
C1
G3
G1
F1
O4
N1
N3
N2
V+1R8RX
V+5E1
O2
C4
G4
V+3RX
E3
G5
F2
R1
C3
G7
G8
F3
J1
J2
V+5DH
C2
V+5E3
J3
V+5AH
V+3TX
V+5HD
G10
G11
V+2R5
L1
C7
V+1R8TX
V+5IN
C5
C6
G14
G16
G15
G13
A2
B2
A1
J4
V+12UN
E10
ANALOG DEVICES
NOT USE SIDE B(FIRST)
REFLOW

Note : The above photograph is VSX-LX70. HDMI/DVC block of VSX-LX60 is the same layout.

HDMI & DVC Block Diagram


VSX-LX60 Only
R210
VSX-LX70 Only
IC202
ICS571LMF
IC204
TC7WH157FU
IC203
TC7WH74FU
IC205
TC7WH157FU
IC201
TC74LCX541FTS1
R211
VSX-LX60 Only
MCKLO,BCKO,LRCKO,
SD[0:3]O,SPDIFO
BAMCK,BABCK,
BALRCK,BADAT
CN1001
(30P)
6-15
26-29
IC251
TC74LCX157FTS1
IC502
AYW7181
4M Flash ROM
IC501
PEG118A
HDMI CPU
High
Low
VSX-LX70 Only
HDMI
IN1
–
JA1101
(19P)
R00XC[+,-]
R00X0[+,-]
R00X1[+,-]
R00X2[+,-]
10,12
7,9
4,6
1,3
IC1101
CXB1442AR
Cable EQ
R0XC[+,-]
R0X0[+,-]
R0X1[+,-]
R0X2[+,-]
HDMI
IN2
HDMI
IN1
JA1102
(19P)
R01XC[+,-]
R01X0[+,-]
R01X1[+,-]
R01X2[+,-]
IC101
SiI9135CTU
HDMI RECEIVER
HDMCLK
SCK,WS,SD0
SD[1:3]
HDSPDIF
DCK
VSYNC
HSYNC
DE
D[0:5,8:9,12:15,24:27]
D[6:7,
10:11]
D
[16:23]
D
[28:35]
MCLK,SCK,
WS,SD0
IC301
SiI9134CTU
HDMI TRANSMITTER
TXC[+,-]
TX0[+,-]
TX1[+,-]
TX2[+,-]
JA301
(21P)
HDMI
OUT
HDMI
IN3
HDMI
IN2
JA1151
(19P)
R10XC[+,-]
R10X0[+,-]
R10X1[+,-]
R10X2[+,-]
IC1151
CXB1442AR
Cable EQ
R1XC[+,-]
R1X0[+,-]
R1X1[+,-]
R1X2[+,-]
HDMI
IN4
HDMI
IN3
JA1152
(19P)
R11XC[+,-]
R11X0[+,-]
R11X1[+,-]
R11X2[+,-]
IC1381
TC74LCX541FTS1
IC1383
TC74LCX541FTS1
IC1384
TC74LCX541FTS1
IC1351
EDS6432AFTA-6B-E
64M SDRAM
IC1301
FLI2310-LF-CF
IP Convert/Scaler
CN1002
(30P)
VCV IN
VCY
VCC IN
VCCY IN
VCCb IN
VCCr IN
24
20
18
12
10
8
IC401
ADV7800BSTZ-80
VIDEO DECODER
P[10:11,20:21]
P[12:19]
LLC
HS
VS
P[22:29]
IC601
ADV7172KSTZ
VIDEO ENCODER
VCV OUT
VCY
VCC
VCCY OUT
VCCb OUT
VCCr
22
16
14
6
4
2

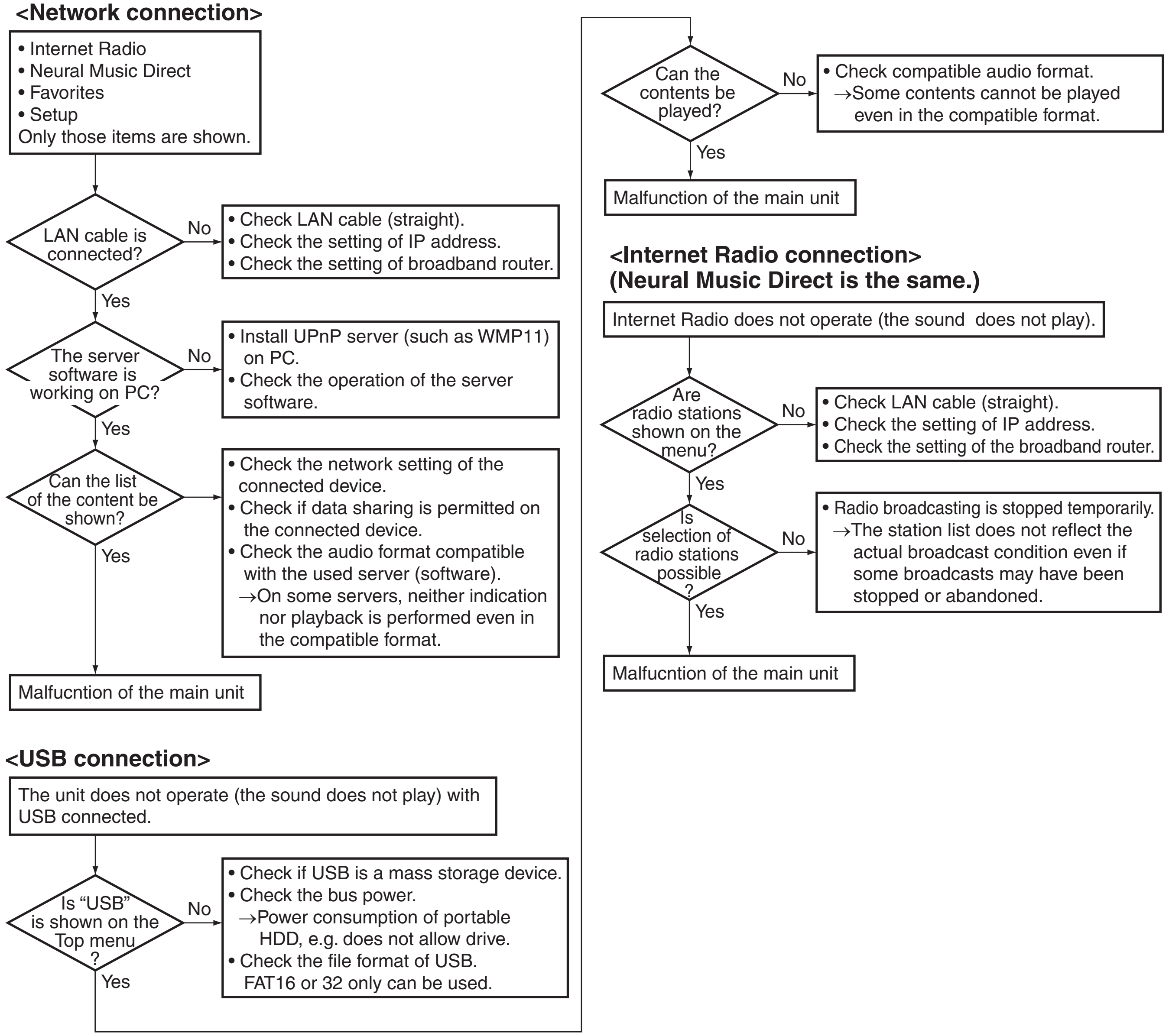
Note : The above Block Diagram is VSX-LX60. HDMI/DVC block of VSX-LX70 is the same layout.

5.1.3 DIAGNOSIS OF THE NETWORK BLOCK

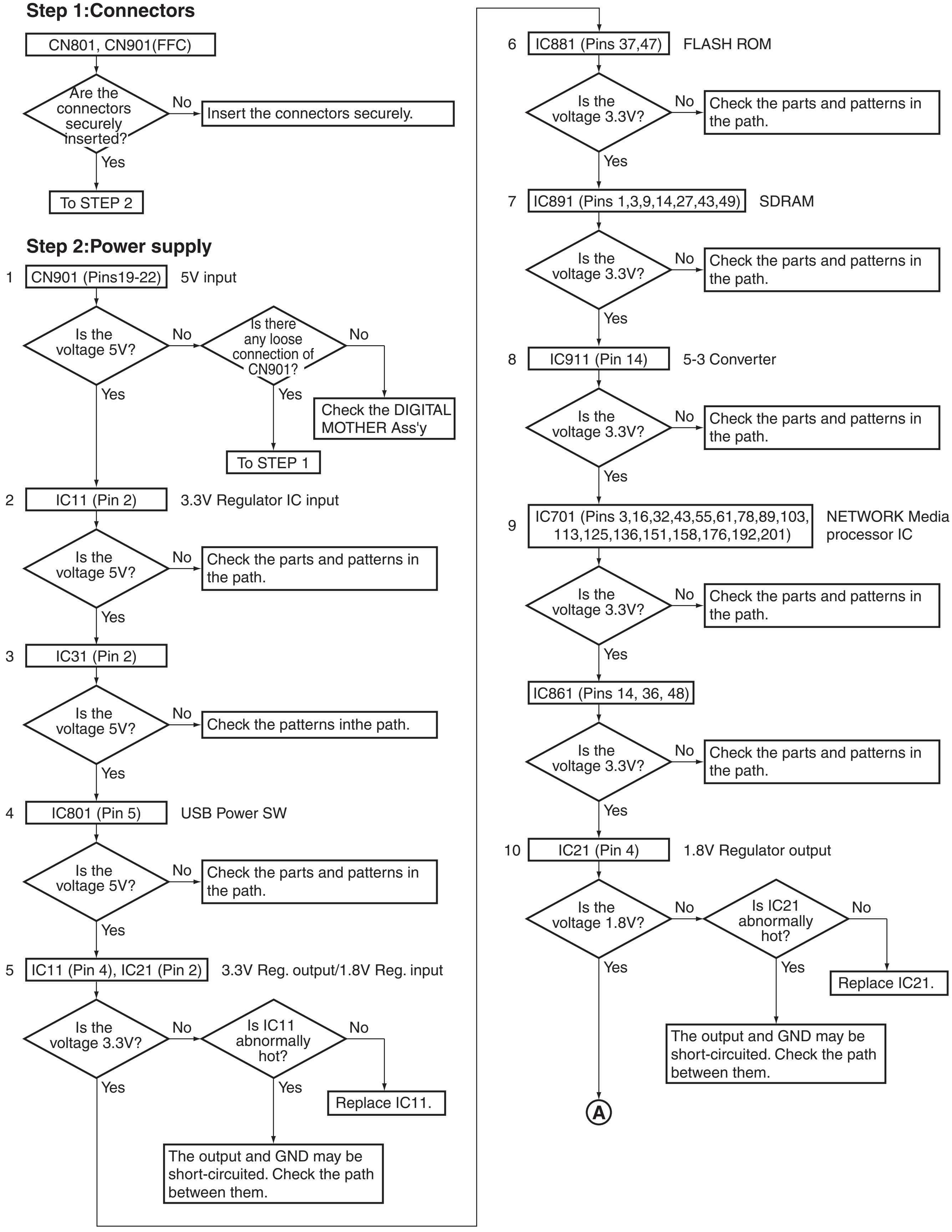
1.Constitution of network function

CD --- ..... -- HDMI4 ---- HOME MEDIA GALLERY
- USB
- Internet Radio
- Neural Music Direct → Internet radio run by Neural
- Servier1
- Servier2
- Servier3
- Favorites
- Setup
  - Information
    - Firmware Version → Indicates the version of the firmware.
    - MAC Address → Indicates MAC Address.
    - IP Address → Indicates IP Address.
    - Gateway IP → Indicates Gateway IP.
    - Proxy Server → Indicates if Proxy Server is valid or invalid.
    - Subnet Mask → Indicates Subnet Mask.
  - Network Setup

2.Flow chart for isolation of network malfunction


<Network connection>
• Internet Radio • Neural Music Direct • Favorites • Setup Only those items are shown.
LAN cable is connected?
No
• Check LAN cable (straight). • Check the setting of IP address. • Check the setting of broadband router.
Yes
The server software is working on PC?
No
• Install UPnP server (such as WMP11) on PC. • Check the operation of the server software.
Yes
Can the list of the content be shown?
• Check the network setting of the connected device. • Check if data sharing is permitted on the connected device. • Check the audio format compatible with the used server (software). →On some servers, neither indication nor playback is performed even in the compatible format.
Yes
Malfucntion of the main unit
<USB connection>
The unit does not operate (the sound does not play) with USB connected.
Is “USB” is shown on the Top menu ?
No
• Check if USB is a mass storage device. • Check the bus power. →Power consumption of portable HDD, e.g. does not allow drive. • Check the file format of USB. FAT16 or 32 only can be used.
Yes
Can the contents be played?
No
• Check compatible audio format. →Some contents cannot be played even in the compatible format.
Yes
Malfunction of the main unit
<Internet Radio connection> (Neural Music Direct is the same.)
Internet Radio does not operate (the sound does not play).
Are radio stations shown on the menu?
No
• Check LAN cable (straight). • Check the setting of IP address. • Check the setting of the broadband router.
Yes
Is selection of radio stations possible ?
No
• Radio broadcasting is stopped temporarily. →The station list does not reflect the actual broadcast condition even if some broadcasts may have been stopped or abandoned.
Yes
Malfucntion of the main unit

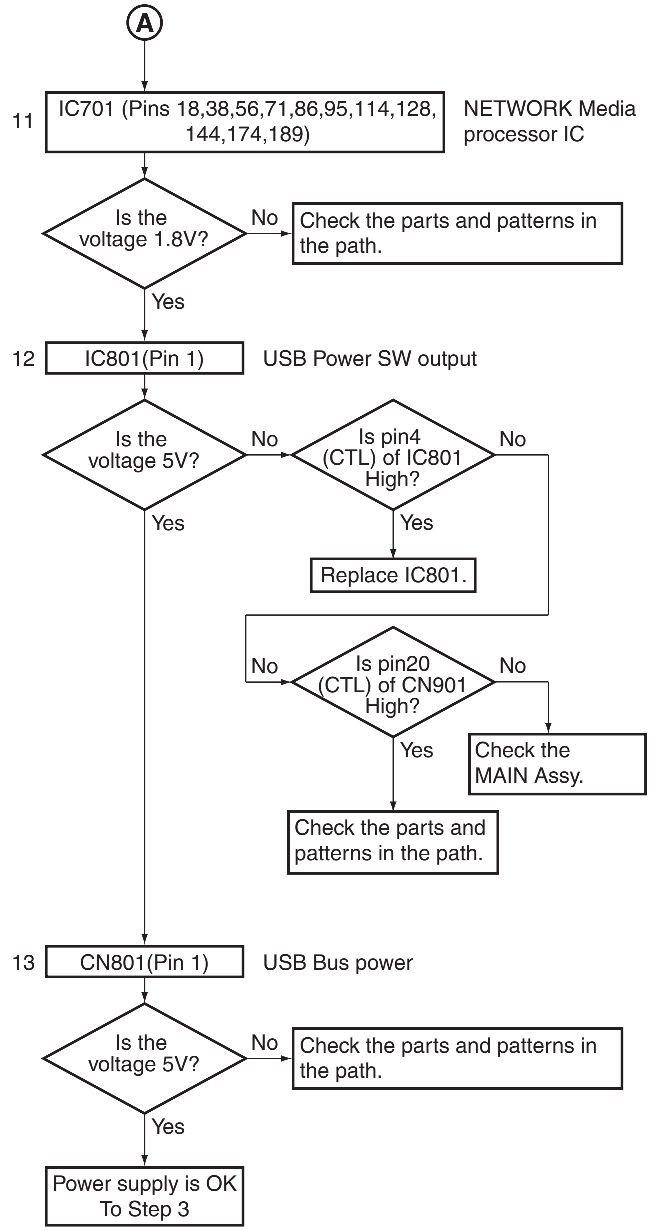
■TROUBLESHOOTING THE NETWORK BLOCK



Step 1:Connectors

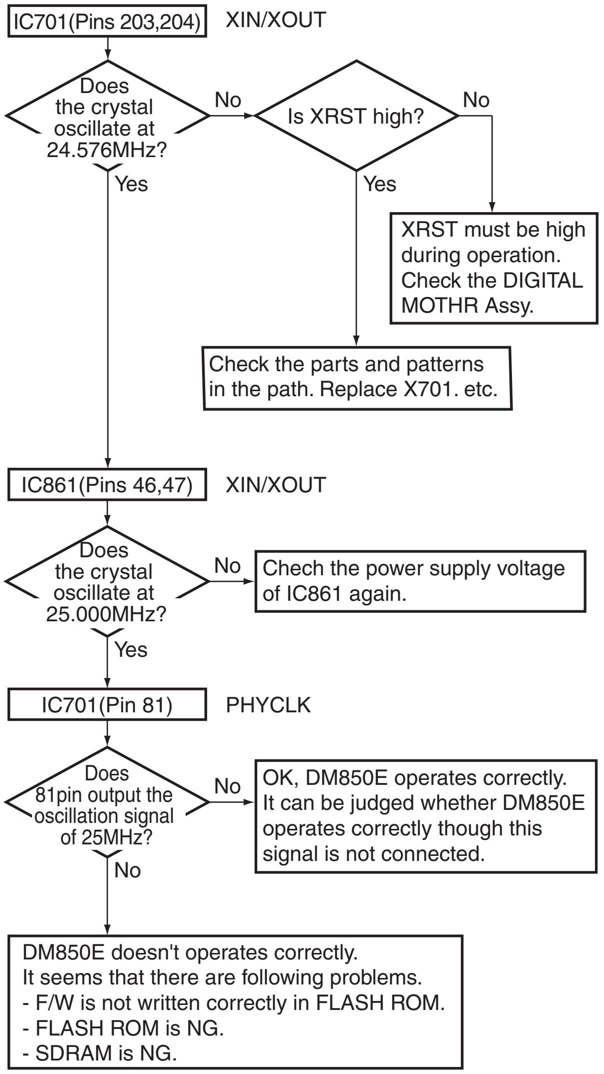
Step 2:Power supply

CN801, CN901(FFC)
Are the connectors securely inserted?
No
Insert the connectors securely.
Yes
To STEP 2
1
CN901 (Pins19-22)
5V input
Is the voltage 5V?
No
Is there any loose connection of CN901?
No
Check the DIGITAL MOTHER Ass'y
Yes
To STEP 1
Yes
2
IC11 (Pin 2)
3.3V Regulator IC input
Is the voltage 5V?
No
Check the parts and patterns in the path.
Yes
3
IC31 (Pin 2)
Is the voltage 5V?
No
Check the patterns inthe path.
Yes
4
IC801 (Pin 5)
USB Power SW
Is the voltage 5V?
No
Check the parts and patterns in the path.
Yes
5
IC11 (Pin 4), IC21 (Pin 2)
3.3V Reg. output/1.8V Reg. input
Is the voltage 3.3V?
No
Is IC11 abnormally hot?
No
Replace IC11.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
6
IC881 (Pins 37,47)
FLASH ROM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
7
IC891 (Pins 1,3,9,14,27,43,49)
SDRAM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
8
IC911 (Pin 14)
5-3 Converter
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
9
IC701 (Pins 3,16,32,43,55,61,78,89,103, 113,125,136,151,158,176,192,201)
NETWORK Media processor IC
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
IC861 (Pins 14, 36, 48)
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
10
IC21 (Pin 4)
1.8V Regulator output
Is the voltage 1.8V?
No
Is IC21 abnormally hot?
No
Replace IC21.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
A


A
11
IC701 (Pins 18,38,56,71,86,95,114,128, 144,174,189)
NETWORK Media processor IC
Is the voltage 1.8V?
No
Check the parts and patterns in the path.
Yes
12
IC801(Pin 1)
USB Power SW output
Is the voltage 5V?
No
Is pin4 (CTL) of IC801 High?
No
Yes
Replace IC801.
Yes
No
Is pin20 (CTL) of CN901 High?
No
Check the MAIN Assy.
Yes
Check the parts and patterns in the path.
13
CN801(Pin 1)
USB Bus power
Is the voltage 5V?
No
Check the parts and patterns in the path.
Yes
Power supply is OK To Step 3

Step 3:Operation of Network Media processor IC

*Please confirm it with the USB memory that saved the music content.


IC701(Pins 203,204)
XIN/XOUT
Does the crystal oscillate at 24.576MHz?
No
Is XRST high?
No
XRST must be high during operation. Check the DIGITAL MOTHR Assy.
Yes
Check the parts and patterns in the path. Replace X701. etc.
Yes
IC861(Pins 46,47)
XIN/XOUT
Does the crystal oscillate at 25.000MHz?
No
Chech the power supply voltage of IC861 again.
Yes
IC701(Pin 81)
PHYCLK
Does 81pin output the oscillation signal of 25MHz?
No
OK, DM850E operates correctly. It can be judged whether DM850E operates correctly though this signal is not connected.
No
DM850E doesn't operates correctly. It seems that there are following problems.
- F/W is not written correctly in FLASH ROM.
- FLASH ROM is NG.
- SDRAM is NG.

Step 4 : Communication between DM850E and System CPU

The signal shown by following fig are communication line of DM850E and main CPU(IC101).
Confirm the connection of the signals along these routes.

fig. 1

	CN901	IC911 (5V→3V)		IC701
XRST	Pin 1	Pin 12	Pin 11	Pin 190
SPI CS	Pin 10	Pin 2	Pin 3	Pin 143
SPI CLK	Pin 3	Pin 5	Pin 6	Pin 141
SPI TX	Pin 8	Pin 9	Pin 8	Pin 147

fig. 2

	IC701	IC921 (3V→5V)		CN901
SPI RX	Pin 146	Pin 9	Pin 8	Pin 7
SPI REQ	Pin 100	Pin 5	Pin 6	Pin 9

Step 5 :Communication between DM850E and System CPU

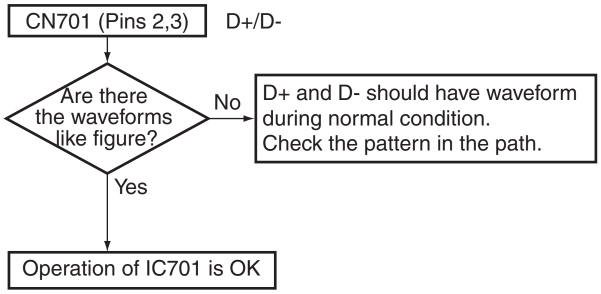
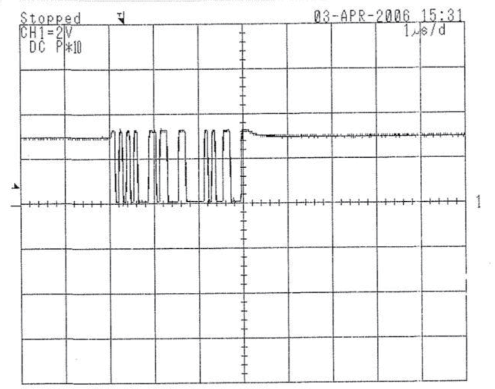
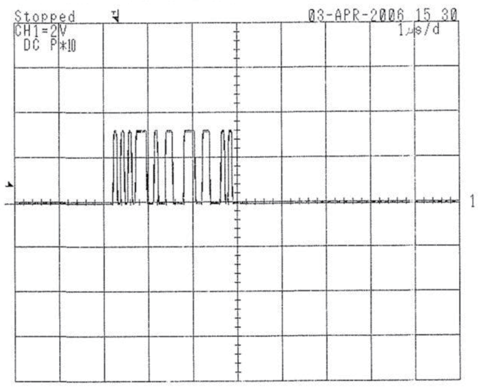

CN701 (Pins 2,3)
D+/D-
Are there the waveforms like figure?
No
D+ and D- should have waveform during normal condition.
Check the pattern in the path.
Yes
Operation of IC701 is OK

fig. : D+



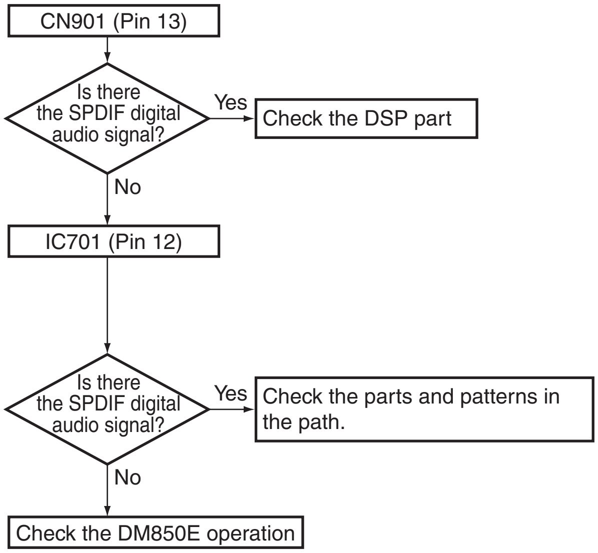
X : 1usec/div, Y : 2V/div

fig. : D-



X : 1usec/div, Y : 2V/div

Step 6 : Audio Output


CN901 (Pin 13)
Is there the SPDIF digital audio signal?
Yes
Check the DSP part
No
IC701 (Pin 12)
Is there the SPDIF digital audio signal?
Yes
Check the parts and patterns in the path.
No
Check the DM850E operation

<Additional information>

- An IC having data (MAC addresses, Favorite and Details etc. that users have changed) on the network (Home Media Gallery) is IC881 (AYW7185).

- How to confirm the network connection
  Set to “Home Media Gallery” entry → Select ”Set up” from home menu → Select ”Network Setup” with ↑↓ Key →
    When “Network Connection Network Found” is displayed, the network can be connected.
    When “Network Connection No Network Found” is displayed, the network cannot be connected.
    → Check the router setting or LAN connection.

5.1.4 USB Assy (VSX-LX60)

■ Description of Error Indications

FL Display	Error Content	Possible causes and actions to be taken
USB ERROR1	Detection of overcurrent to a USB device	Overcurrent (500 mA or more) is consumed at the connected USB device. • Some USB devices, such as a portable HDD, need more current than that this unit supplies. (Use the AC adaptor for the connected USB device.) • The USB power is short-circuited.
USB ERROR2	Detection of a medium not supported	A USB device that this unit does not support (other than the Mass Storage Class) is connected (such as a mouse, printer, or digital camera). • Connect a mass storage class USB device.
USB ERROR3	Communication error with the system microcomputer	Communication between TCC8600-00X-EA-UG (IC701) and PEG378A (IC101) failed. • Defective connection (connectors) inside this unit • See STEP 3 of Troubleshooting.

■ Operations when overcurrent to a USB device is detected

(1) Overcurrent to a USB device is detected at the port for the microcomputer.

(2) The power supply to the USB device is stopped.

(3) Control of 5 V power is disabled at the port for the microcomputer.

(4) Change of indications on the FL display

Flashes for 2 sec.

USB ERR1

⇩ Lights up after flashing for 2 sec.

USB ERR1

(5) To supply power to the USB module again:

- Turn the power to the unit off then back on.
- Set the function setting to anything other than USB then back to USB.
- Press the USB play key on the remote control unit.

(6) After overcurrent is detected, if the USB play key is pressed while the error indication is displayed, power supply to the USB module is restored. If overcurrent is no longer detected, the indications shown below are displayed (normal indication):

USB

In this state, flashing of "USB ERROR1" stops, but playback will not start. To start playback, press the USB play key again.

In the above case, if overcurrent is detected again, the above procedures 1 through 4 are repeated.

■ In a case where a medium not supported is connected

(1) Change of indications on the FL displays

Flashes for 2 sec.

USB ERR2

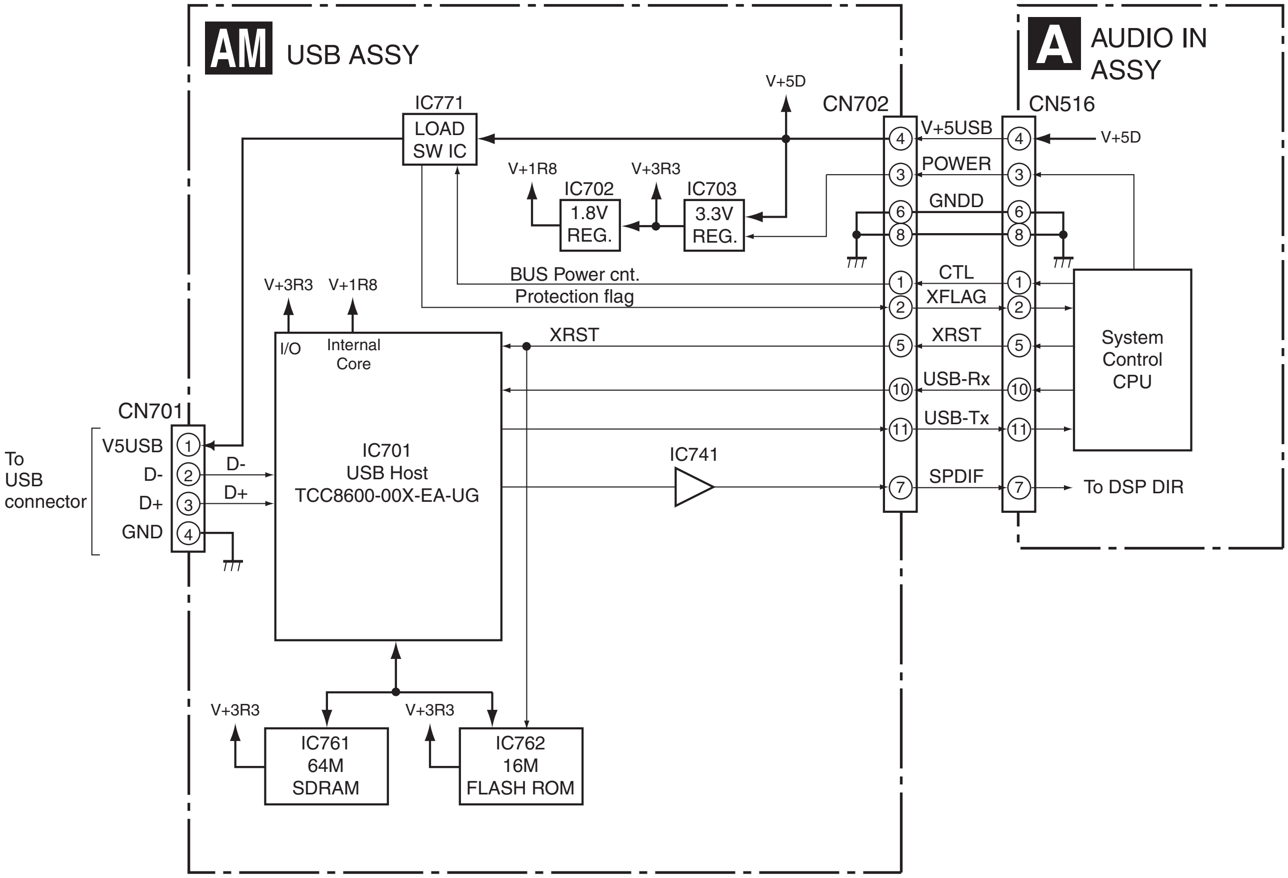
⇩ Lights up after flashing for 2 sec.

USB ERR2

If overcurrent is detected before detection of a non-supported medium, the error indication "USB ERROR1" remains, as the power supply to the USB module is stopped.

On supported media
The formats of supported media that can be played back on this unit are MP3, WMA, and AAC.
Some media in MPEG4 can also be played back. As AAC derives from MPEG4 codec, playback of media in AAC codec of MPEG4 is possible.

■ Block Diagram of the USB Assy

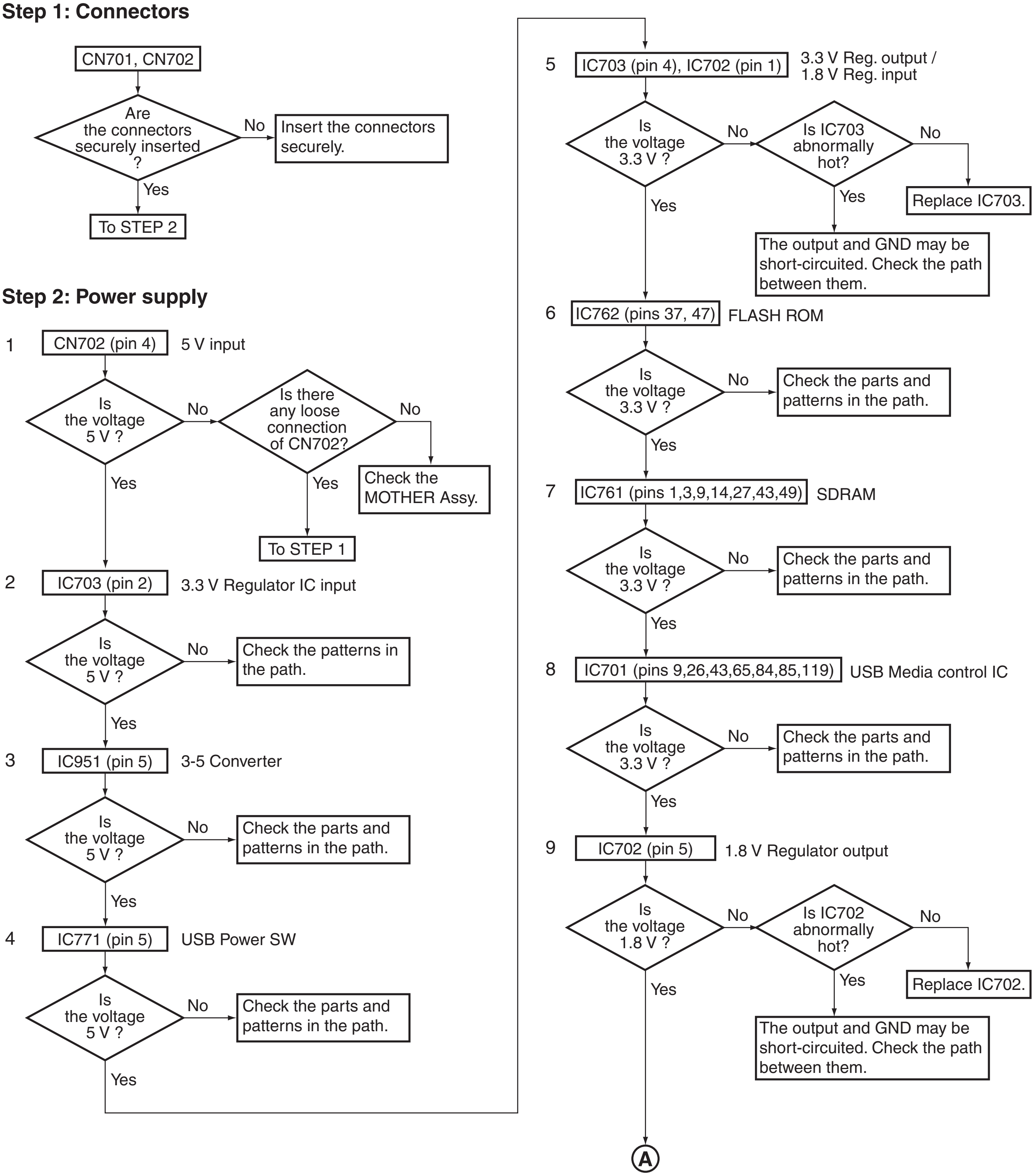

AM USB ASSY
A AUDIO IN ASSY
IC771
LOAD SW IC
V+5D
CN702
CN516
V+5USB
POWER
GNDD
V+5D
V+1R8
V+3R3
IC702
1.8V REG.
IC703
3.3V REG.
BUS Power cnt.
Protection flag
CTL
XFLAG
V+3R3
V+1R8
XRST
XRST
I/O
Internal Core
USB-Rx
USB-Tx
System Control CPU
CN701
To USB connector
V5USB
D-
D+
GND
D-
D+
IC701
USB Host
TCC8600-00X-EA-UG
IC741
SPDIF
To DSP DIR
V+3R3
V+3R3
IC761
64M
SDRAM
IC762
16M
FLASH ROM
1
2
3
4
5
6
7
8
10
11

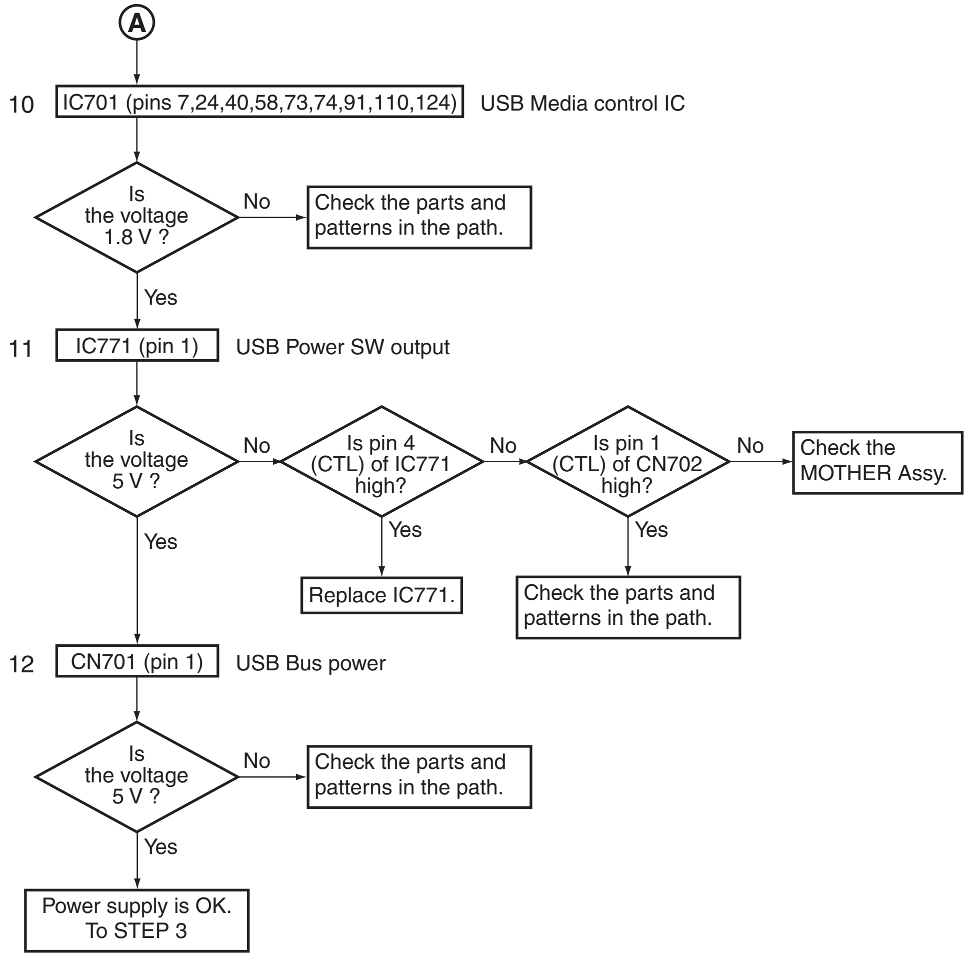
Main parts	Purpose
TCC8600-00X-EA-UG	: USB Host control decoder (MP3/WMA/MPEG-4AAC)
16M FLASH ROM	: Firmware is stored
64M SDRAM	: Temporary storage area of decoding music file
LOAD SWITCH	: Current limitation to USB device power

■ USB Troubleshooting

Step 1: Connectors

Step 2: Power supply


CN701, CN702
Are the connectors securely inserted ?
No
Insert the connectors securely.
Yes
To STEP 2
1
CN702 (pin 4)
5 V input
Is the voltage 5 V ?
No
Is there any loose connection of CN702?
No
Check the MOTHER Assy.
Yes
To STEP 1
Yes
2
IC703 (pin 2)
3.3 V Regulator IC input
Is the voltage 5 V ?
No
Check the patterns in the path.
Yes
3
IC951 (pin 5)
3-5 Converter
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
4
IC771 (pin 5)
USB Power SW
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
5
IC703 (pin 4), IC702 (pin 1)
3.3 V Reg. output / 1.8 V Reg. input
Is the voltage 3.3 V ?
No
Is IC703 abnormally hot?
No
Replace IC703.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
6
IC762 (pins 37, 47)
FLASH ROM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
7
IC761 (pins 1,3,9,14,27,43,49)
SDRAM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
8
IC701 (pins 9,26,43,65,84,85,119)
USB Media control IC
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
9
IC702 (pin 5)
1.8 V Regulator output
Is the voltage 1.8 V ?
No
Is IC702 abnormally hot?
No
Replace IC702.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
A


A
10
IC701 (pins 7,24,40,58,73,74,91,110,124)
USB Media control IC
Is the voltage 1.8 V ?
No
Check the parts and patterns in the path.
Yes
11
IC771 (pin 1)
USB Power SW output
Is the voltage 5 V ?
No
Is pin 4 (CTL) of IC771 high?
No
Is pin 1 (CTL) of CN702 high?
No
Check the MOTHER Assy.
Yes
Replace IC771.
Yes
Check the parts and patterns in the path.
Yes
12
CN701 (pin 1)
USB Bus power
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
Power supply is OK. To STEP 3

Step 3: Operation of USB Media control IC

Note: Please confirm it with the USB memory connected for the content.

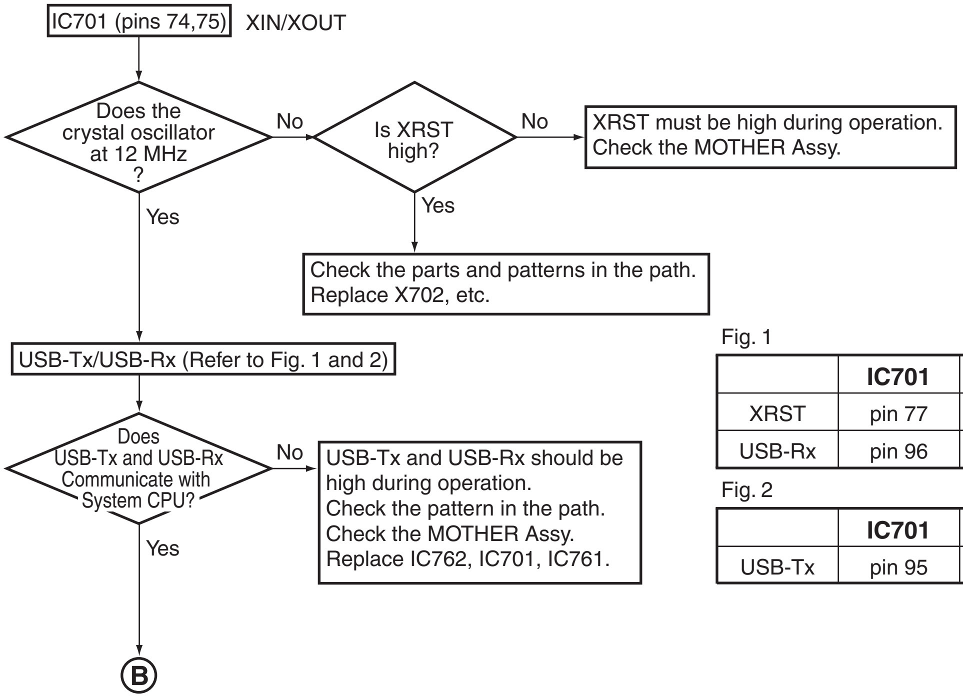

IC701 (pins 74,75)
XIN/XOUT
Does the crystal oscillator at 12 MHz ?
No
Is XRST high?
No
XRST must be high during operation. Check the MOTHER Assy.
Yes
Check the parts and patterns in the path. Replace X702, etc.
Yes
USB-Tx/USB-Rx (Refer to Fig. 1 and 2)
Does USB-Tx and USB-Rx Communicate with System CPU?
No
USB-Tx and USB-Rx should be high during operation. Check the pattern in the path. Check the MOTHER Assy. Replace IC762, IC701, IC761.
Yes
B

Fig. 1

	IC701		**CN702**
XRST	pin 77	R951	pin 5
USB-Rx	pin 96	R955	pin 10

Fig. 2

	IC701	**IC951 (3 V → 5 V)**		**CN702**
USB-Tx	pin 95	pin 2	pin 4	pin 11

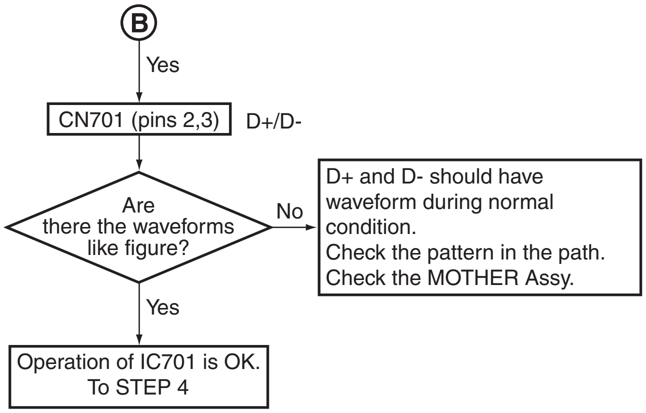
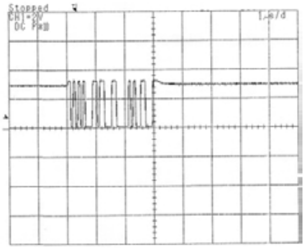
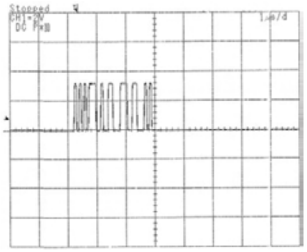

B
Yes
CN701 (pins 2,3)
D+/D-
Are there the waveforms like figure?
No
D+ and D- should have waveform during normal condition.
Check the pattern in the path.
Check the MOTHER Assy.
Yes
Operation of IC701 is OK.
To STEP 4

Fig. D+



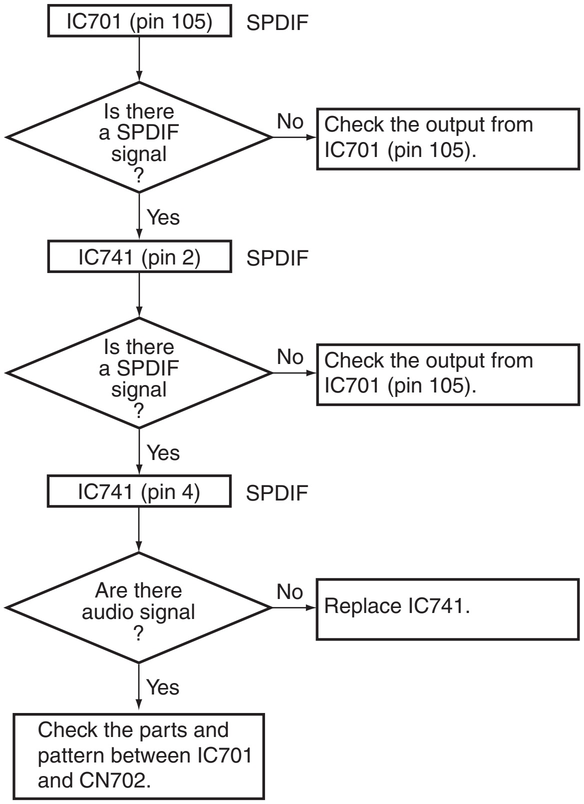
X: 1 μsec/div, Y: 2 V/div

Fig. D-



X: 1 μsec/div, Y: 2 V/div

Step 4: Audio Out check


IC701 (pin 105)
SPDIF
Is there a SPDIF signal ?
No
Check the output from IC701 (pin 105).
Yes
IC741 (pin 2)
SPDIF
Is there a SPDIF signal ?
No
Check the output from IC701 (pin 105).
Yes
IC741 (pin 4)
SPDIF
Are there audio signal ?
No
Replace IC741.
Yes
Check the parts and pattern between IC701 and CN702.

5.1.5 HOW TO DIAGNOSE THE PRODUCT WITH THE POWER AMP BLOCK REMOVED

The failure in the Power Amp Block is suspected as shown in the table below.

Symptom that is highly suspected to be caused by a failure in the Power Amp Block	Possible cause
① The power cannot be turned on, and the MCACC LED is flashing.	The DC detection circuit is activated in order to prevent extension of the failure. **Note:** See "5.1.6 Failure Diagnosis of the Power Amp Block."
② The unit is shut down after "AMP ERR" is displayed on the FL display. Then the unit goes into the state described in ① above.	
③ "OVER HEAT" is displayed on the FL display.	The posistors (TH5001 and TH5301) in the Power Amp Block are open. **Note:** The resistance of the thermistor at normal temperature is about 330 ohms.
④ The unit is shut down without an error message on the FL display. Then the PHASE CONTROL LED flashes.	Power Amp overloaded, defective overload-detection circuit in the Power Amp Block, etc.

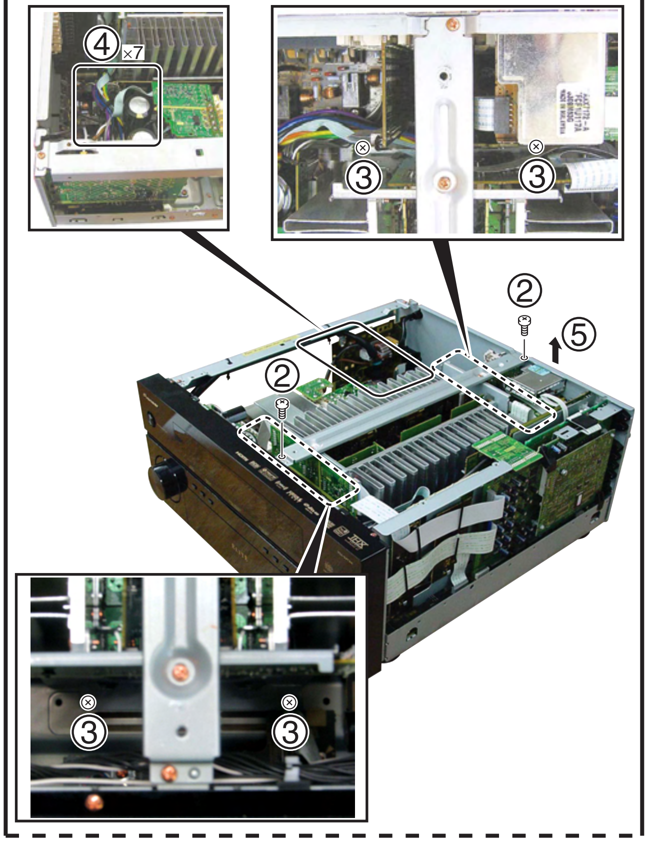
Failure diagnosis with the power on is not possible for some board assys, because the large Power Amp Block lies in the way. However, if the Power Amp Block is removed, the thermistor connected to the Power Amp Block is disconnected, which will activate the protection circuits.

To enable failure diagnosis of those board assys, after the Power Amp Block is removed in the manner described below.

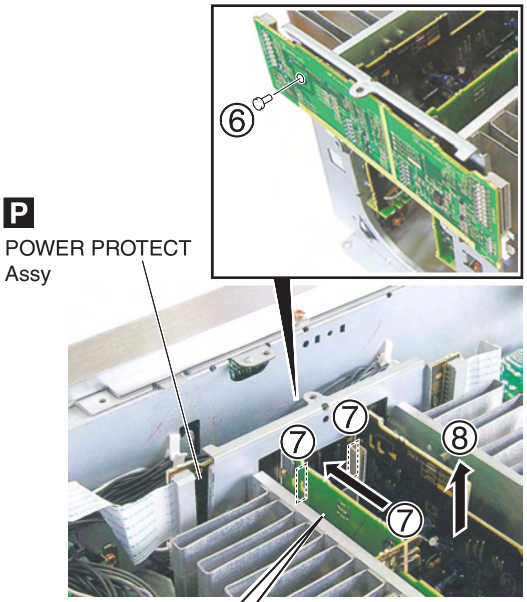
[Procedures]

① Remove the bonnet by removing the 22 screws.

② Remove the two screws.
③ Remove the four screws.
④ Disconnect the six connectors and one jumper.
⑤ Disconnect the flexible cable.



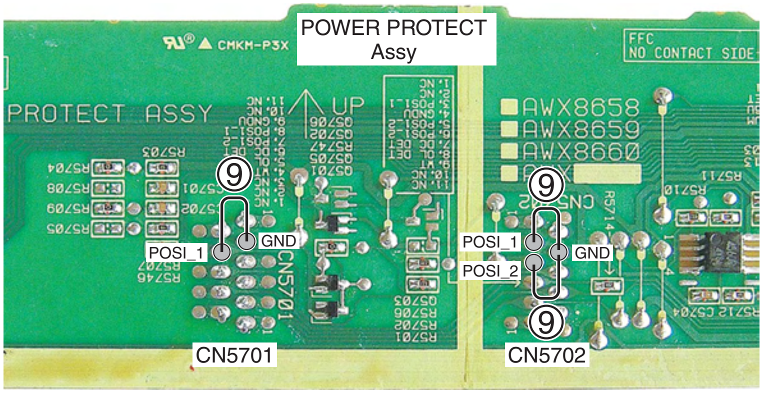
⑥ Remove the nylon rivet.
⑦ Remove the POWER PROTECT Assy from the Power Amp Block.
⑧ Remove the Power Amp Block.



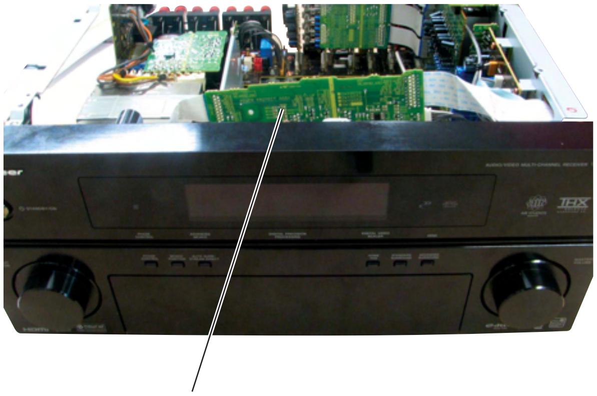
The POWER PROTECT Assy can be easily removed with no load applied to the connectors if you pull out the board by pushing on it at its center from the rear.

Note:
To prevent an electric shock hazard, after removing the Heat Sink Block, discharge the condenser of the ±VL line, by discharging CN4101 or CN4102 on the SP/PS Assy, using a discharging resistor. (It is recommended to make a resistance of 100 ohms or more in the series-parallel connection, using four or more discharging resistors of 100 ohms, 3 W.)

⑨ Short circuit between pin8 (POSI_1) and pin 9 (GND) of CN5701 of the POWER PROTECT Assy, and Pin 3 (POSI_1) and pin 4 (GND), and Pin5 (POSI_2) and pin 4 (GND) of CN5702 .


POWER PROTECT
Assy
PROTECT ASSY
CMKM-P3X
FFC
NO CONTACT SIDE
UP
AWX8658
AWX8659
AWX8660
⑨
GND
POSI_1
⑨
POSI_1
GND
POSI_2
⑨
CN5701
CN5702

⑩ Turn the power on. (The power is on without the protection circuits activated.)



POWER PROTECT
Assy

Diagnose

⚠ Warning: Before putting the Power Amp Block back

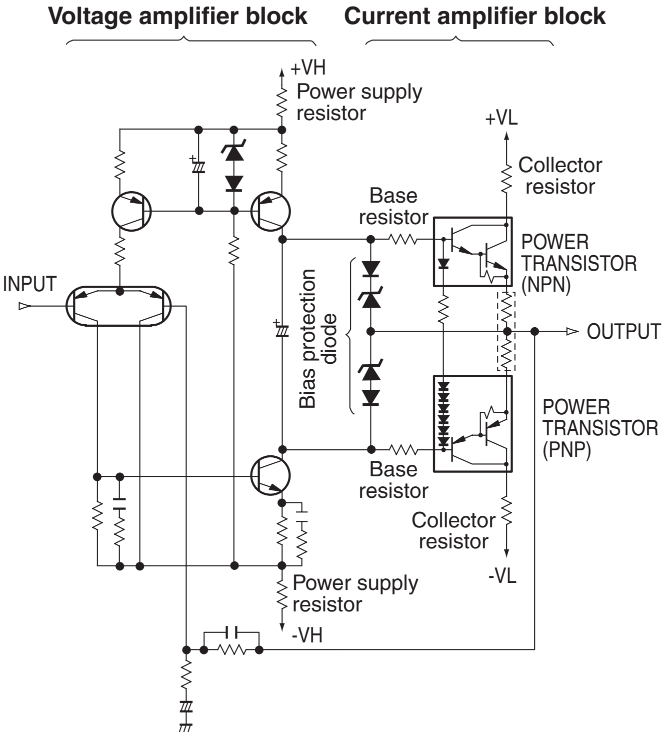
After performing a diagnosis, be sure to remove the solders at short circuit points. Also, be sure to discharge the electric charges of the VH line (charges of the electrolytic condenser) before putting the Power Amp Block back. (See "7. DISASSEMBLY / 1. Before the Power Amp Block is removed.")

Note: If you connect the connectors without discharging, some parts, such as a resistor or Fuse IC on VH line, may be damaged by the inrushing current.

5.1.6 FAILURE DIAGNOSIS OF THE POWER AMP BLOCK

If "AMP ERR" flashes on the FL display immediately after the power is turned on, then the unit is shut down, the power amplifier block is damaged, and DC voltage is output. In this case, either or both of the current and voltage amplifier block(s) is(are) damaged. Herein is described how to diagnose which block is in failure.

Most cases of damage in the power amplifier block are damage on the power transistor caused by excess power consumption, such as short-circuiting of the speaker terminals and use of low-impedance speakers that are not guaranteed. The failure diagnosis is therefore conducted on the current amplifier block first, then on the voltage amplifier block.



Notes:

- During diagnosis of the amplifier block with the power on, if you touch a high-impedance circuit (in particular, both ends of 100-ohm base resistance of the power transistor) with the probe of an oscilloscope or a tester, the circuit may be damaged by oscillation of an oscilloscope or a tester.
- While a failure diagnosis is being conducted with the power on, do NOT touch parts other than the power, input, and output blocks.
- Only the points with CP (check point) marks in the schematic diagram can be diagnosed while the power is on.

1. Damage on the current amplifier block

Check of the power transistor and collector resistance of each channel, using a tester

Tips:

In most cases where the current amplifier block is damaged by an excess power consumption of the power transistor, damage is caused by short-circuiting between the collector and emitter. The collector resistor is open because of large collector current.
In this case, the channel in failure can be identified by checking on which channel the resistance between C and E of the power transistor is 0 Ω (some hundreds of ohms or less) and the resistor of collector resistor is ∞ Ω. As a damage scar appears on the surface of the part when the collector resistor is open, you can also check it by visual inspection.

Note:

Even if the result of the measurement of resistance with the tester shows that the power transistor is not short-circuited, that power transistor may be damaged if the paired push-pull power transistor has been damaged. Therefore, it is recommended to replace both parts when either needs to be replaced.

2. Damage on the voltage amplifier block

Check of the base resistance (100 Ω) and Power supply (±VH) resistor (4.7 Ω) of each channel, using a tester

Tips:

In most cases, the voltage amplifier block is damaged by oscillation generated by a special load connection, a large-amplitude output at higher frequencies out of the audible range, or an influence of damage on the current amplifier block (power transistors). In many cases, the base resistance (100 Ω) is damaged. It is necessary to check each part of the voltage amplifier block, as damage may have been extended to other parts.
In most cases, the resistors are open/damaged, or the transistors or diodes are short-circuited/damaged.

- The resistors must not be open (the resistance must not be higher than the indicated value).
- The terminals of transistors or diodes must not be short-circuited (the resistance must not be extremely low).
  (If the resistance is low but you are not sure if it is extremely low, compare the value with that of the normal channel.)

If the voltage amplifier block is damaged, Power supply (±VH) resistor (4.7 Ω) may also be damaged.

3. Other damage

Check of the bias protection diodes

Tips:

If the power amplifier is damaged, the bias protection diodes may be deteriorated or open.
For a channel that has been diagnosed to be in failure, the Vf (forward descending voltage) of the four diodes must be checked to confirm that they are not deteriorated or open, using a tester, after repair of the amplifier. If these diodes are deteriorated, its distortion/frequency characteristics may be affected. If these diodes are open, the scale of damage on the power transistors may be extended if any abnormality is generated in the amplifier next time.

■ Operating temperature of the posistor assembling to the heat sink

	No.	Part No.	Operating temperature	Purpose	Operation
POS1L	TH5001	PTFM04BH222Q2N34B0	60 °C	FAN control (TEMP1)	FAN activation at more than 60 °C
POS1R	TH5301	PTFM04BH222Q2N34B0	60 °C	FAN control (TEMP1)	FAN activation at more than 60 °C
POS2	TH5002	PTFM04BH222Q2N34B0	100 °C	Detection of abnormal temperature	OVERHEAT perform at more than 100 °C

* Operating temperature is body temperature of the posistor (the metal part).

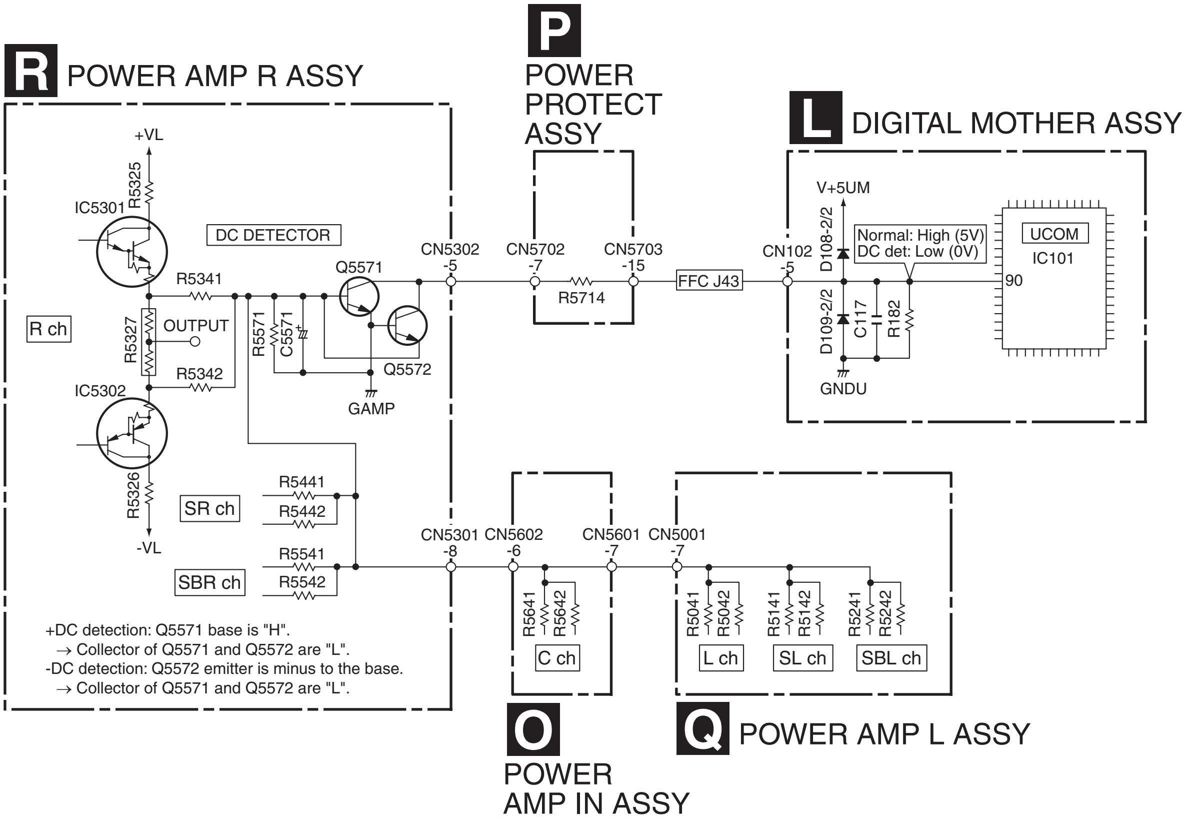
5.2 CIRCUIT DESCRIPTION

5.2.1 PROTECTION CIRCUIT SPECIFICATION

● Protection Circuit Process List

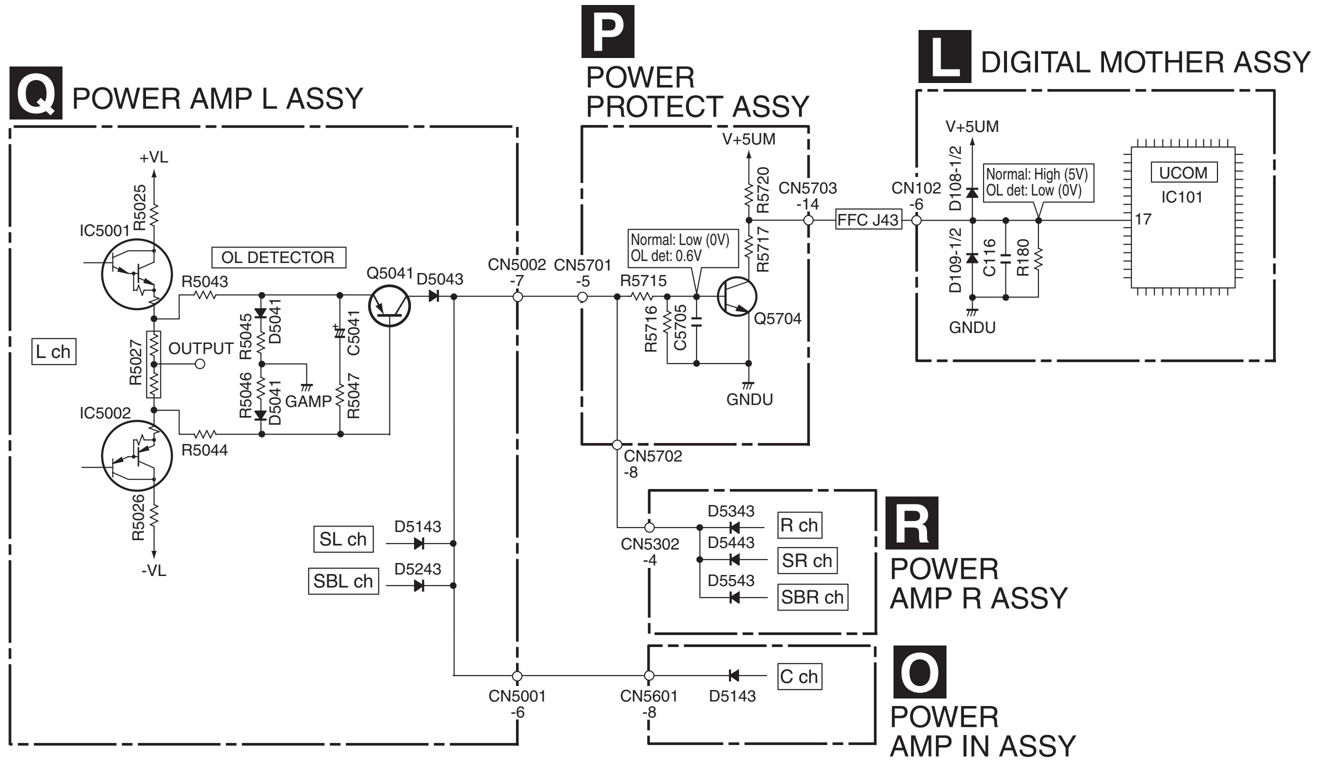
Item	Purpose	Detection Method	Process	Warning Indication	Remarks
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_PROTECT port becomes "L". (Pin 90 of IC101)	Turns muting on and speaker relay off, then turns off the power after 3 seconds. Then flashes MCACC indicator.	Flashing "AMP ERR" for 3 seconds.	Once detected and turned the power off, input a key never again. If the DC_DET port becomes "L" within 3 seconds, the unit returns to normal condition automatically.
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the OL_DET port becomes "L" (checks by interrupt). (Pin 17 of IC101)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes PHASE CONTROL indicator.	None	
Overheat detection	Self reset type protection feature by temperature-rise of heat sink	Detects when the TEMP2 port becomes "H" . (Pin 24 of IC3301)	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "OVERHEAT" for 3 seconds.	If the TEMP2 port becomes "L" within 3 seconds, the unit returns to normal condition automatically.
12V trigger failure detection	To detect the shortcircuit of 12V trigger output (load more than 50mA) (for protection of the amplifier)	Detects when the 12VDET port becomes "H" . (Pin 69 of IC101)	Turns 12V trigger output to off.	Flashing "12V TRG ERR" for 3 seconds.	Continue showing warning. Release the FL indication by switching the INPUT SEL or the turns the power off.

● DC Detection Circuit


P
POWER PROTECT ASSY
R
POWER AMP R ASSY
L
DIGITAL MOTHER ASSY
+VL
R5325
IC5301
DC DETECTOR
Q5571
R5341
R ch
R5327
OUTPUT
R5571
C5571
R5342
Q5572
IC5302
GAMP
R5326
-VL
SR ch
R5441
R5442
SBR ch
R5541
R5542
CN5302 -5
CN5702 -7
CN5703 -15
R5714
FFC J43
CN102 -5
V+5UM
D108-2/2
Normal: High (5V)
DC det: Low (0V)
UCOM
IC101
90
D109-2/2
C117
R182
GNDU
CN5301 -8
CN5602 -6
CN5601 -7
CN5001 -7
R5641
R5642
C ch
R5041
R5042
L ch
R5141
R5142
SL ch
R5241
R5242
SBL ch
O
POWER AMP IN ASSY
Q
POWER AMP L ASSY

+DC detection: Q5571 base is "H".
→ Collector of Q5571 and Q5572 are "L".
-DC detection: Q5572 emitter is minus to the base.
→ Collector of Q5571 and Q5572 are "L".

● OL (Over Load) Detection Circuit


P
POWER PROTECT ASSY
L
DIGITAL MOTHER ASSY
Q
POWER AMP L ASSY
+VL
R5025
IC5001
OL DETECTOR
R5043
Q5041
D5043
CN5002 -7
CN5701 -5
R5715
Normal: Low (0V)
OL det: 0.6V
V+5UM
R5720
R5717
CN5703 -14
FFC J43
CN102 -6
V+5UM
D108-1/2
Normal: High (5V)
OL det: Low (0V)
UCOM
IC101
17
D109-1/2
C116
R180
GNDU
Q5704
R5716
C5705
GNDU
L ch
R5027
OUTPUT
R5045
D5041
C5041
R5046
D5041
GAMP
R5047
IC5002
R5044
R5026
-VL
CN5702 -8
D5343
R ch
D5443
SR ch
D5543
SBR ch
CN5302 -4
R
POWER AMP R ASSY
SL ch
D5143
SBL ch
D5243
C ch
D5143
CN5001 -6
CN5601 -8
O
POWER AMP IN ASSY

● FAN CONTROL

1. Condition of FAN Rotation

Condition 1 (AND condition) MAIN u-com (DIGITAL MOTHER Assy IC101)

	TEMP1 (89Pin)	WATT IN (91Pin)
8Ω MODE	H (5V)	0.6V or higher
6Ω MODE	H (5V)	0.4V or higher

2. FAN STOP Detection

Rotate FAN for 10 seconds under Condition 1.

↓

Start FAN STOP detection (after 2 seconds even when FAN DRIVE Port (87Pin) is set Hi)

↓ ↓

After cancelling Condition 1, wait for 10 seconds before stopping rotation.

↓

↓

After FAN STOP Port (88Pin) becomes L, turn Mute ON & Speaker Relay OFF.
"FAN STOP" displayed for 3 seconds.

↓ continuation ↓ return

A power supply is shut off.

A program is performed from the power on start up.

6. SERVICE MODE

6.1 SERVICE MODE

The Service mode has three functional blocks (VERSION block, PROTECT block and DOWNLOAD block).

How to enter the Service mode

1. Turn off MULTI-ZONE. Lower MASTER VOLUME to the minimum (---dB) and turn off the power.
2. After the power-off, press and hold down both the "ENTER" key and the "MULTI-ZONE ON/OFF" key for approximately five seconds.

How to exit the Service mode

Turning off the power or pressing the RETURN key returns to the normal mode.

Mode transition methods for each of the VERSION block, PROTECT block and DOWNLOAD block.

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
VERSION block 1/4 Display MAIN / EVENT microcomputer.	M1.000 E1.000
[→] [←]	
PROTECT block 1/8 Display number of times DC is detected.	DC : 000
[→] [←]	
DOWNLOAD block 1/6 Display MAIN computer DOWNLOAD.	MAIN DL[START]
[→] [←]	
Return to VERSION block 1/4.	

VERSION block

This block displays version information of various microcomputers and DSP firmware.
*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display	Explanation on displayed versions
Survice mode ON		
VERSION block 1/4 MAIN/EVENT microcomputer	M1.000 E1.000	M * . *** : MAIN microcomputer E * . *** : EVENT microcomputer
[↓] [↑]		
VERSION block 2/4 DISPLAY microcomputer	DISP 1.000	DISP * . *** : DISPLAY microcomputer
[↓] [↑]		
VERSION block 3/4 DSP/HDMI microcomputer	D1.000 H1.000	D * . *** : DSP microcomputer H * . *** : HDMI microcomputer
[↓] [↑]		
VERSION block 4/4 1stDSP/2ndDSP firmware	f1.000 s1.000	f * . *** : 1st DSP firmware s* . *** : 2nd DSP firmware
[↓] [↑]		
To PROTECT block		

PROTECT block

This block displays number of times protection processing is detected.
*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
PROTECT block 1/8 Display number of times DC is detected.	DC : 000
[↓] [↑]	
PROTECT block 2/8 Display number of times OVERLOAD is detected.	OVER : 010
[↓] [↑]	
PROTECT block 3/8 Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously)	CON : 002
[↓] [↑]	
PROTECT block 4/8 Displays number of times FAN error is detected.	FAN : 002
[↓] [↑]	
PROTECT block 5/8 Display number of times abnormal temperature is detected.	TEMP : 255
[↓] [↑]	
PROTECT block 6/8 Resetting the number of times error is detected	RESET ◀ HOLD ▶
[↓] [↑]	
PROTECT block 7/8 Display accumulated time & RESET.	12345h20m◀HLD▶
[↓] [↑]	
PROTECT block 8/8 The Timer of Exception "Set Stream Path" command on CEC.	EX.SSP◀1500ms▶
[↓] [↑]	
To DOWNLOAD block	

Resetting the number of times error is detected

Key operation	FL display
[←][→]	RESET ◀CLEAR?▶
[ENTER]	RESET [RESET]
↓ To normal mode	

Resetting the accumulated time

Key operation	FL display
[←][→]	12345h20m◀CL?▶
[ENTER]	0h 0m◀RST▶
↓ To normal mode	

Setting of the Timer of Exception "Set Stream Path" command on CEC.

Key operation	FL display
[←][→]	EX.SSP◀ 600ms▶
↓ To normal mode	

DOWNLOAD block

This block enters the rewriting mode of various microcomputers and DSP firmware.

Key operation	FL display
DOWNLOAD block 1/6 MAIN computer DOWNLOAD [↓] [↑]	MAIN DL[START]
DOWNLOAD block 2/6 EVENT computer DOWNLOAD [↓] [↑]	EVNT DL[START]
DOWNLOAD block 3/6 DSP computer DOWNLOAD [↓] [↑]	DSPM DL[START]
DOWNLOAD block 4/6 HDMI computer DOWNLOAD [↓] [↑]	HDMI DL[START]
DOWNLOAD block 5/6 1stDSP FIRM DOWNLOAD [↓] [↑]	DSP1 DL[START]
DOWNLOAD block 6/6 2ndDSP FIRM DOWNLOAD [↓] [↑] To VERSION block	DSP2 DL[START]

■ Error indications when an abnormality in the amplifier system is detected

[Purpose]

An error message is displayed when an abnormality in the amplifier system is detected.

[Error Messages]

FL Display	Status	Duration (sec.)
AMP ERROR	When AMP DC is detected	Flashes 3 times.
AMP OVERHEAT	When a thermal shutdown (abnormal temperature), etc. is detected	Flashes 3 times.
FAN STOP	When stopping of the fan is detected	Flashes 3 times.
12V TRG ERR	When the 12-V trigger circuit is short-circuited	Flashes
DSP NG	When the NG communication with the DSP u-com is detected.	Flashes
HMDI NG	When the NG communication with the HDMI u-com is detected.	Flashes
HDCP ERROR	When the HDCP ERR is detected.	Flashes 5 seconds.
NOT SUPPORT	When the NOT SUPPORT of HDCP is detected.	Flashes 5 seconds.

[Description]

AMP ERROR : After a failure in the amplifier block or high DC output is detected, the shutdown process starts, then the power will be shut off. Then the MCACC LED will flash. The power cannot be turned on again. If you wish to turn on the unit after a shutdown activated by DC detection, enter DC detection cancellation mode, by proceeding with the steps described in "How to enter release mode" below.

AMP OVERHEAT : The temperature of the amplifier is abnormally high.

FAN STOP : The fan does not function.

12V TRG ERR : The 12-V trigger output is short-circuited.

After a failure is detected, the shutdown process starts, then the power will be off. The power can be turned on again in Normal mode.

DSP NG : There is no communication response from the DSP u-com.

HDMI NG : There is no communication response from the HDMI u-com.

HDCP ERR : The monitor is non-HDCP type or the monitor is standby state.

NOT SUPPORT : The output resolution is not correspond to the monitor at analog. →HDMI(scaler exist)

[How to enter release mode]

Press and hold "↓ (DOWN)" and "MULTI-ZONE ON/OFF" keys on the front panel simultaneously for 2 seconds in standby mode.

7. DISASSEMBLY

Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

1. Before the Power Amp Block is removed

Before the Power Amp Block is removed, discharge C4209 and C4210 on the TRANS 2-1 Assy, as indicated below.
If you don't, the IC protectors (IC4261 and IC4262) on the VH TR Assy may be open, and DC voltage may be generated at the power amplifier output, which will result in "AMP ERR."

[Procedure]

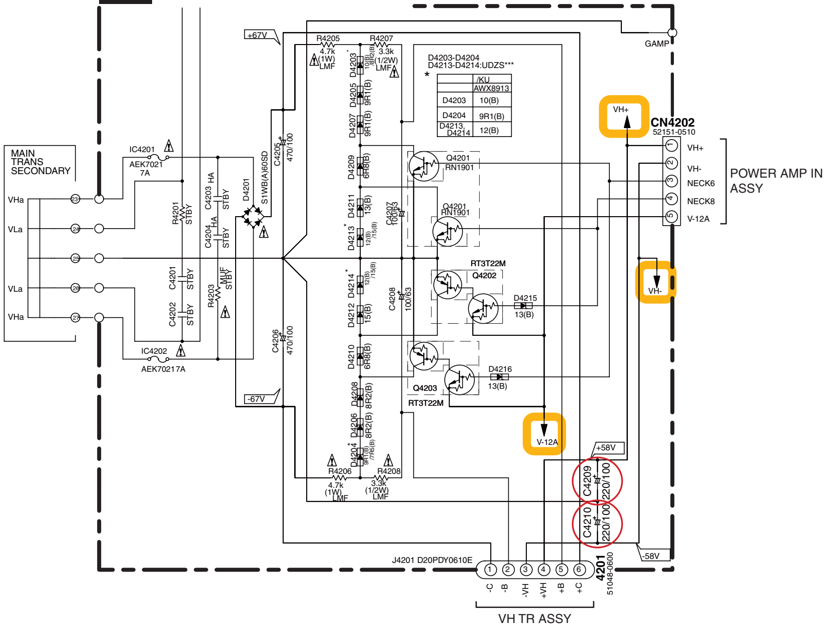
① Unplug the AC code.

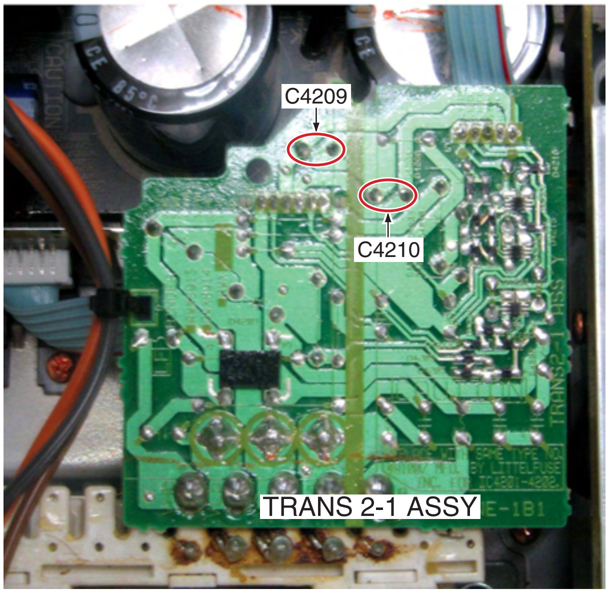
② Discharge C4209 and C4210 on the TRANS 2-1 Assy.
Note: For discharging, use a load of 100Ω, 3W or more, to protect the IC protectors. Do NOT discharge instantly by short-circuiting.

③ Check that the voltage between the electrodes of each C4209 and C4210 is 1V or less.

④ Mount the Power Amp Block.

U TRANS 2-1 ASSY


MAIN TRANS SECONDARY
VHa
VLa
VLa
VHa
IC4201
AEK7021
7A
IC4202
AEK70217A
R4201 STBY
C4203 HA STBY
C4204 HA STBY
C4201 STBY
C4202 STBY
R4203 MUF STBY
D4201
S1WB(A)60SD
C4205 470/100
C4206 470/100
+67V
-67V
R4205 4.7k (1W) LMF
R4207 3.3k (1/2W) LMF
R4206 4.7k (1W) LMF
R4208 3.3k (1/2W) LMF
D4203 D4205 9R1(B) D4207 9R1(B) D4209 6R8(B) D4211 13(B) D4213 D4214 D4212 15(B) D4210 6R8(B) D4208 8R2(B) D4206 8R2(B) D4204
D4203-D4204
D4213-D4214:UDZS***
/KU AWX8913
D4203 10(B)
D4204 9R1(B)
D4213, D4214 12(B)
Q4201 RN1901
Q4201 RN1901
C4207 100/63
C4208 100/63
RT3T22M Q4202
Q4203 RT3T22M
D4215 13(B)
D4216 13(B)
GAMP
VH+
CN4202
52151-0510
VH+
VH-
NECK6
NECK8
V-12A
POWER AMP IN ASSY
VH-
V-12A
+58V
C4209 220/100
C4210 220/100
-58V
J4201 D20PDY0610E
4201
51048-0600
-C -B -VH +VH +B +C
VH TR ASSY

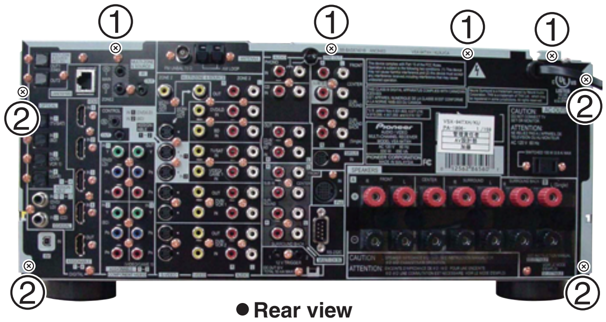

C4209
C4210
TRANS 2-1 ASSY

2. Disassembly

1 Bonnet

① Remove the four screws.

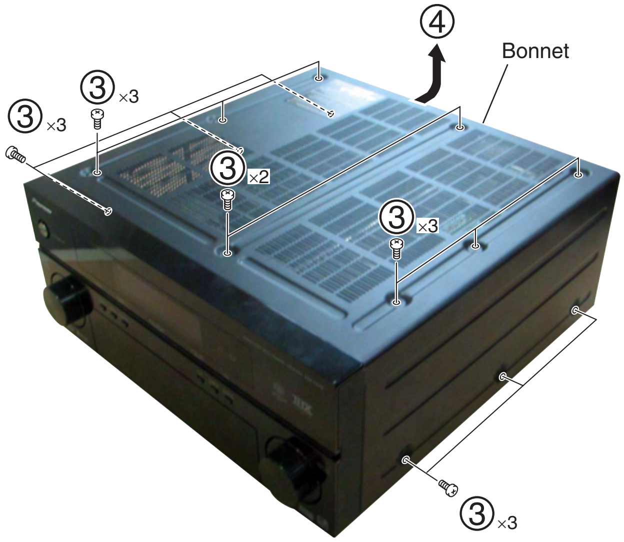
② Remove the four screws.



● **Rear view**

③ Remove the fourteen screws.

④ Remove the bonnet.

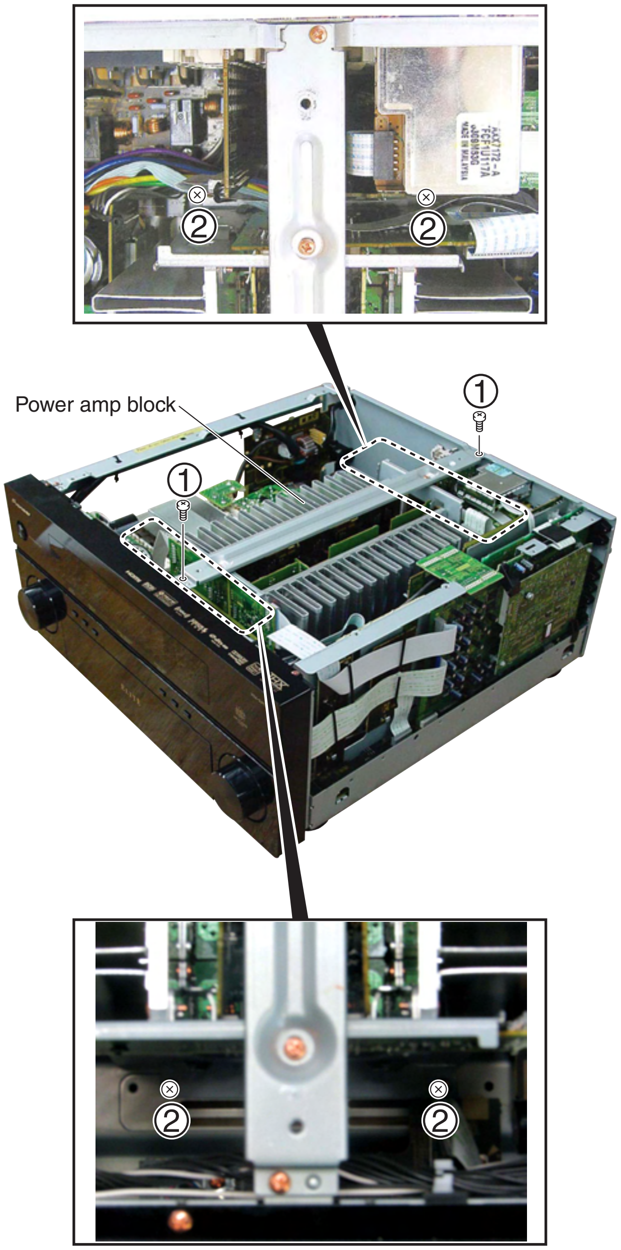

④
Bonnet
③×3
③×3
③×2
③×3
③×3

2 Power Amp Block

**Before removing the power AMP Block, discharge C4209 and C4210 on TRANS 2-1 Assy.
Refer to "1. Before the Power AMP Block is removed".**

① Remove the two screws.

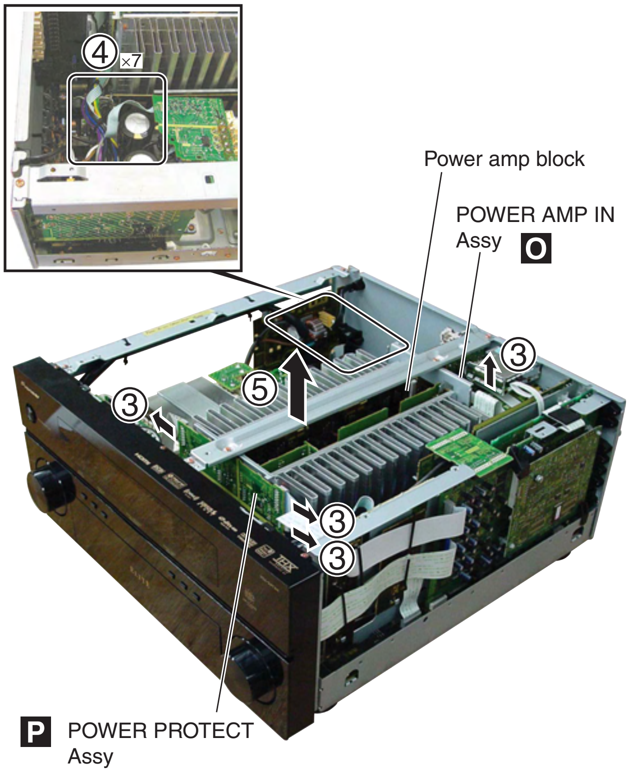
② Remove the four screws.

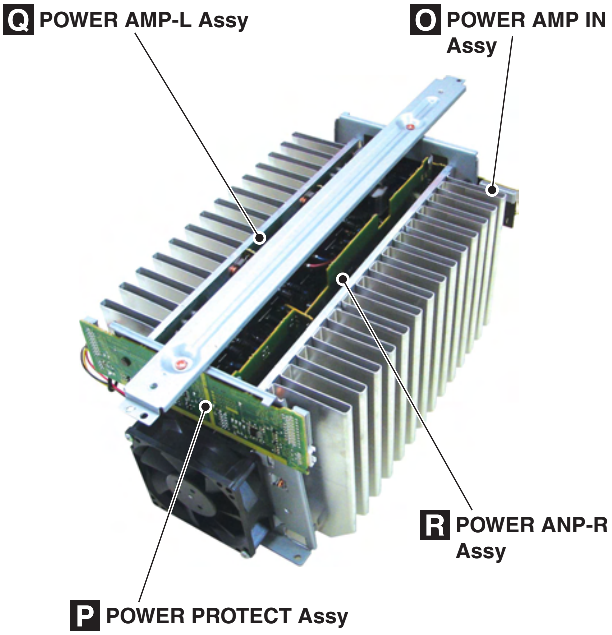

②
②
Power amp block
①
①
②
②

③ Disconnect the three flexible cables and one connector.

④ Disconnect the six connectors and one jumper.

⑤ Remove the power amp block.


④ ×7
Power amp block
POWER AMP IN Assy O
⑤
③
③
③
③
P POWER PROTECT Assy


Q POWER AMP-L Assy
O POWER AMP IN Assy
R POWER ANP-R Assy
P POWER PROTECT Assy

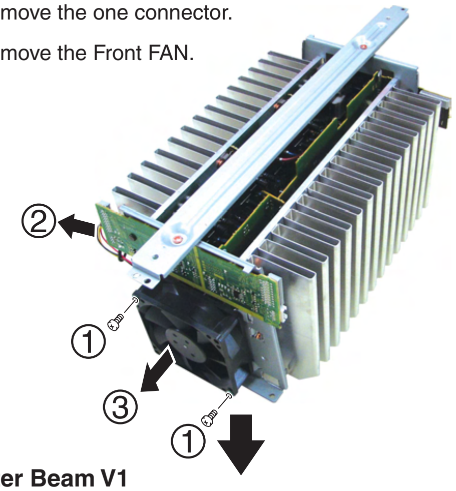
3 Replacing the Power Transistor

• Front FAN

① Remove the two screws.

② Remove the one connector.

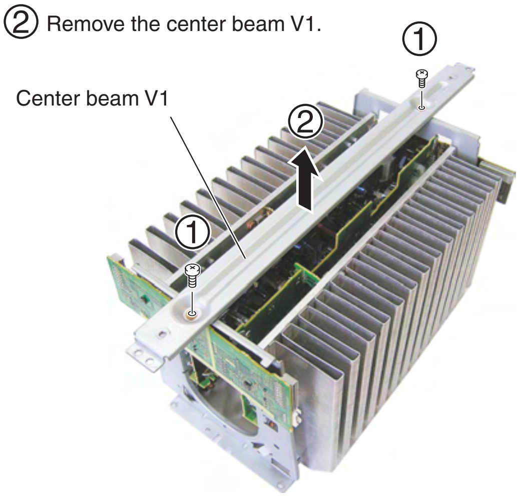
③ Remove the Front FAN.



• Center Beam V1

① Remove the two screws.

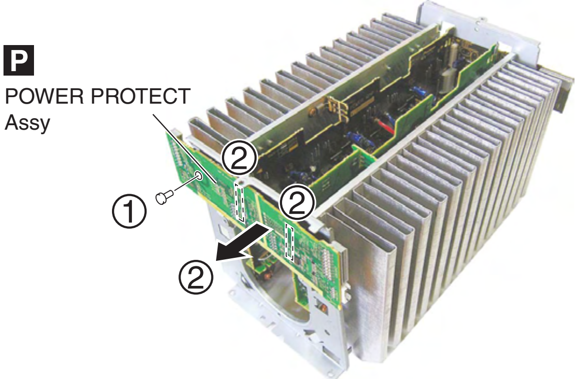
② Remove the center beam V1.


①
Center beam V1
②
①

• POWER PROTECT Assy

① Remove the one nylon rivet.

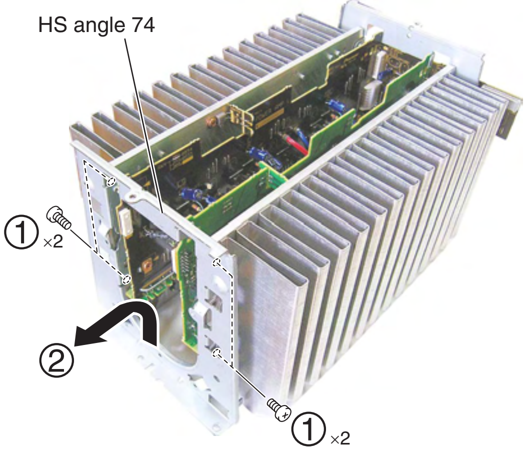
② Remove the POWER PROTECT Assy by removing the two connectors.


P
POWER PROTECT Assy
②
①
②
②

• HS Angle 74

① Remove the four screws.

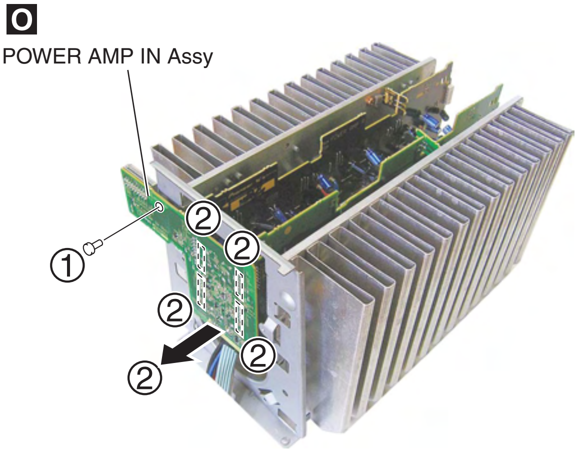
② Remove the HS angle 74.


HS angle 74
① ×2
②
① ×2

• POWER AMP IN Assy

① Remove the one nylon rivet.

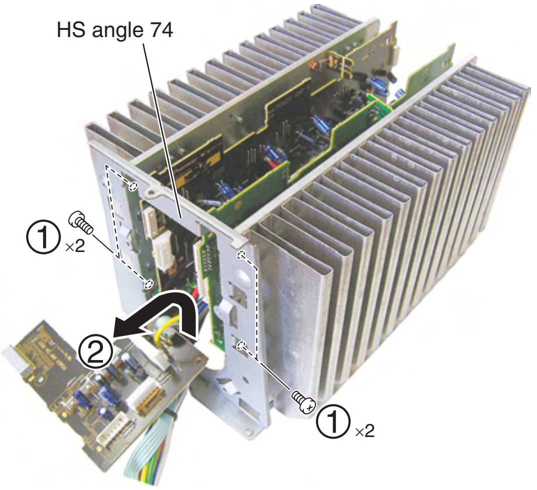
② Remove the POWER AMP IN Assy by removing the four connectors.


O
POWER AMP IN Assy
①
②
②
②
②
②

• HS Angle 74

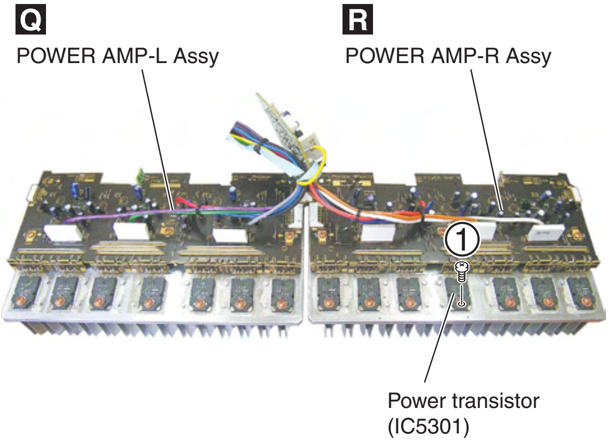
① Remove the four screws.

② Remove the HS angle 74.


HS angle 74
① ×2
②
① ×2

• Replacing the Power Transistor

① Remove the screw.

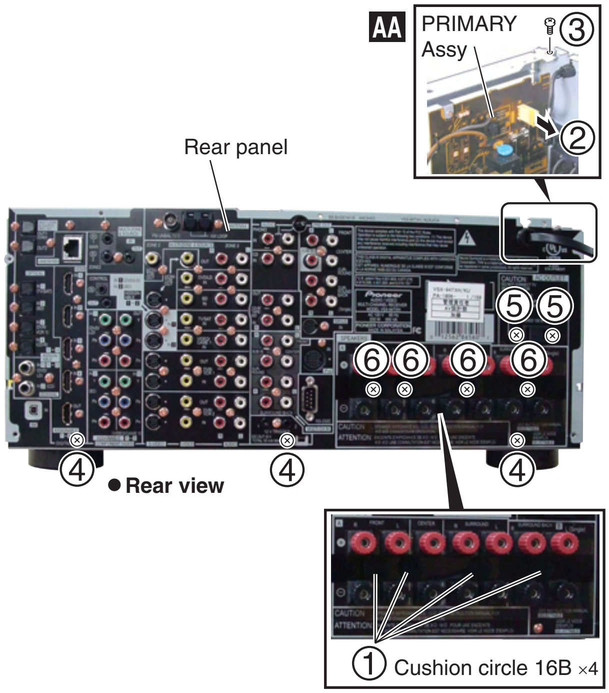

Q
POWER AMP-L Assy
R
POWER AMP-R Assy
①
Power transistor
(IC5301)

Replace

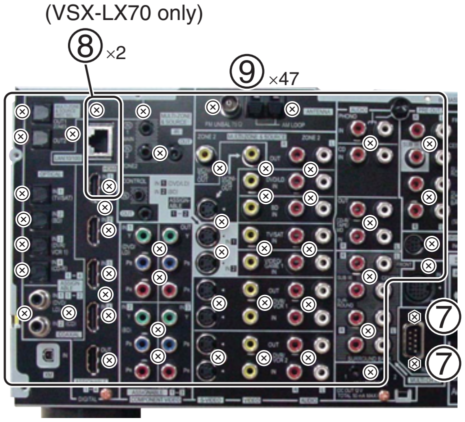
4 Replacing the HDMI & DLNA ASSY

• Rear Panel

① Remove the four cushion circle 16Bs.
② Disconnect the one connector.
③ Remove the screw.
④ Remove the three screws.
⑤ Remove the two screws.
⑥ Remove the four screws.

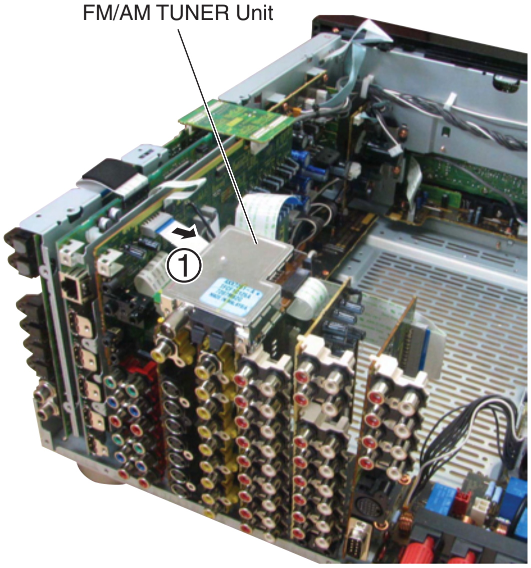

AA
PRIMARY Assy
③
②
Rear panel
⑤ ⑤
⑥ ⑥ ⑥ ⑥
④ ④ ④
● Rear view
① Cushion circle 16B ×4

⑦ Remove the two screws.
⑧ Remove the two screws. (VSX-LX70 only)
⑨ Remove the 47 screws.
⑩ Remove the rear panel.


(VSX-LX70 only)
⑧ ×2
⑨ ×47
⑦
⑦
● Rear view

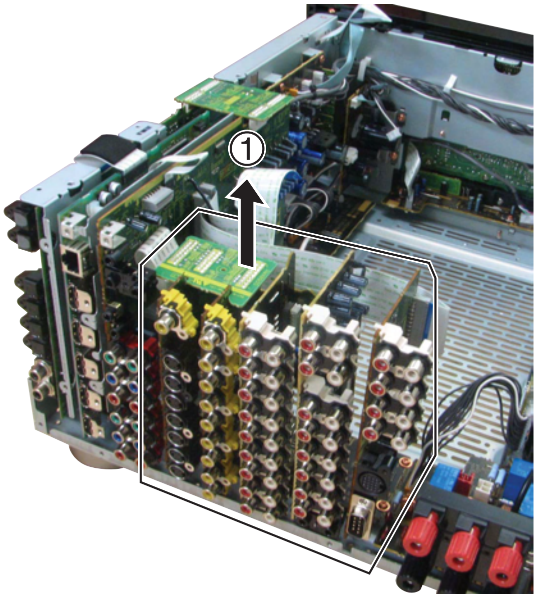
• FM/AM TUNER Unit

① Remove the FM/AM TUNER Unit by removing the one flexible cable.


FM/AM TUNER Unit
①

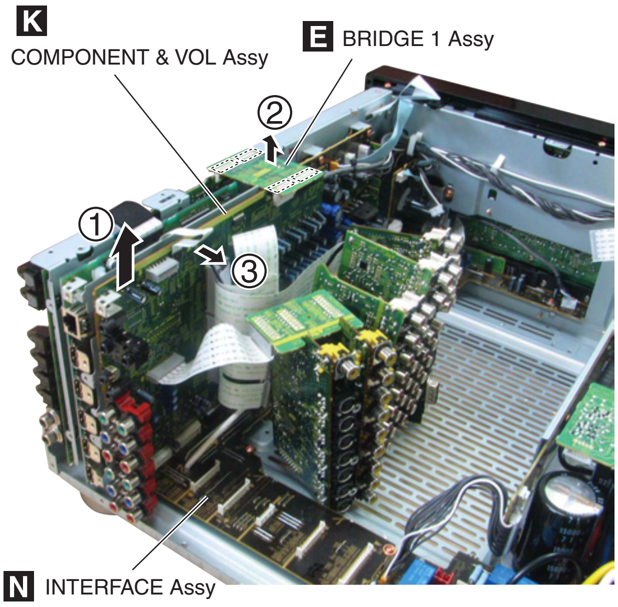
• PCB Assys

① Remove the PREOUT & CONTROL, AUDIO & MULTI CH IN, V-AUDIO, COMPOSITE V, S VIDEO, BRIDGE 2 and BRIDGE 3 Assys from the INTERFACE Assy.



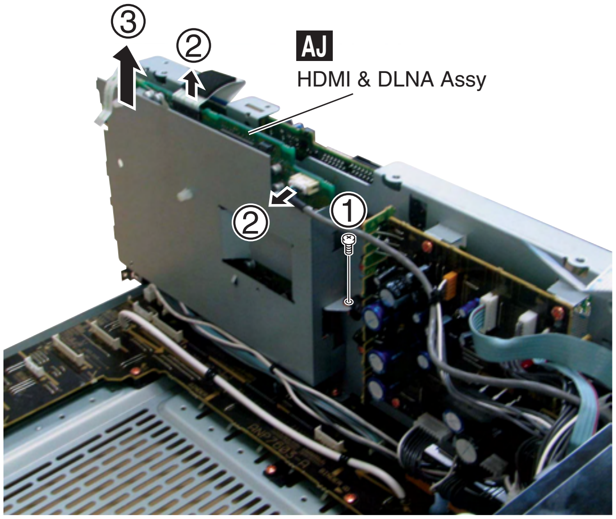
- **COMPONENT & VOL Assy**

① Remove the COMPONENT & VOL Assy from the INTERFACE Assy.
② Remove the BRIDGE 1 Assy by removing the four connectors.
③ Disconnect the flexible cable.


K
COMPONENT & VOL Assy
E BRIDGE 1 Assy
②
①
③
N INTERFACE Assy

- **HDMI & DLNA Assy**

① Remove the screw.
② Disconnect the flexible cables and connector.
③ Remove the HDMI & DLNA Assy from the INTERFACE Assy.

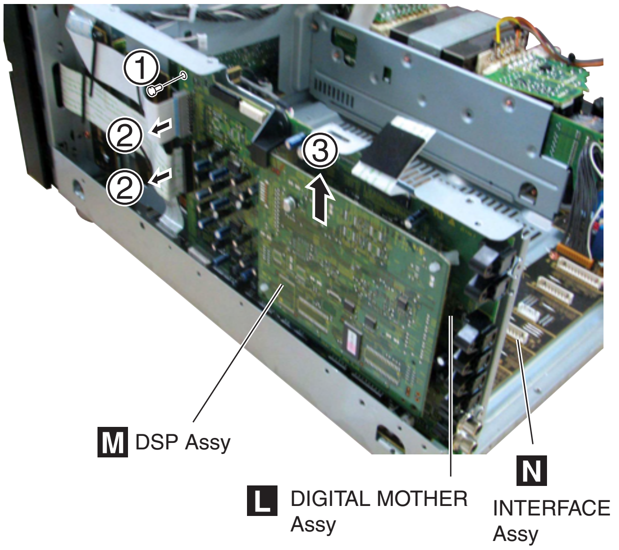

③
②
AJ
HDMI & DLNA Assy
②
①

Replace

5 Replacing the INTERFACE ASSY

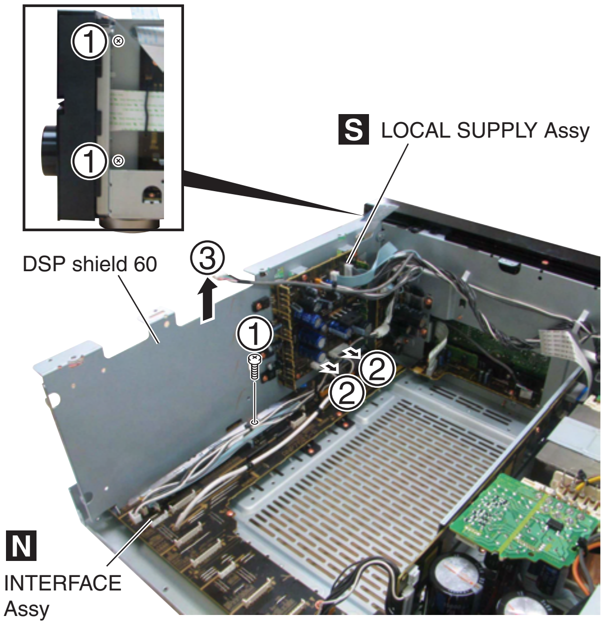
- **DIGITAL MOTHER Assy**

① Remove the nyron rivet.
② Disconnect the two flexible cables.
③ Remove the DIGITAL MOTHER Assy with DSP Assy from the INTERFACE Assy.


①
②
②
③
M DSP Assy
L DIGITAL MOTHER Assy
N INTERFACE Assy

- **DSP Shield 60**

① Remove the three screws.
② Disconnect the two connectors.
③ Remove the DSP shield 60.


①
①
S LOCAL SUPPLY Assy
DSP shield 60
③
①
②
②
N
INTERFACE Assy

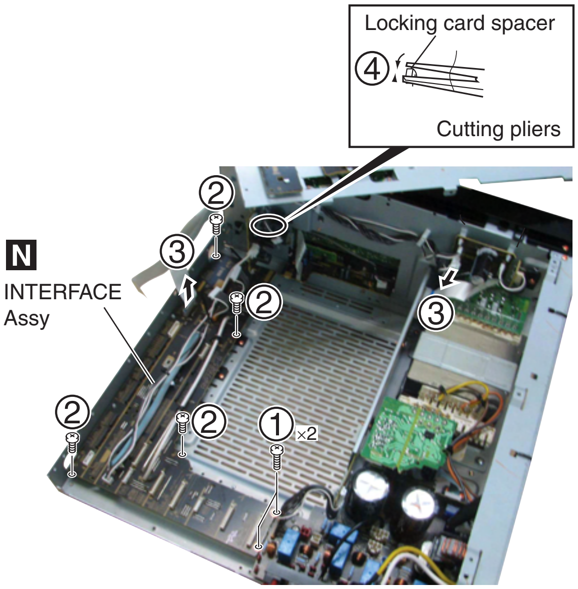
• INTERFACE Assy

① Remove the two screws.

② Remove the four screws.

③ Disconnect the flexible cable and connector.

④ Release the locking card spacer.



Locking card spacer
④
Cutting pliers
②
N
INTERFACE Assy
③
②
③
②
②
① ×2

④ Remove the INTERFACE Assy.

Replace

8. EACH SETTING AND ADJUSTMENT

8.1 ADJUSTMENT

- There is no information to be shown in this chapter.

8.2 HOW TO UPDATE THE DSP FLASH ROM BY PLAYING BACK A CD

[Purpose]

By referring to this section, rewrite the DSP1 and DSP2 Flash ROM when required. Rewriting is instructed through service information, etc. By playing back a CD-R on which a DSP program is recorded, using a normal CD player, rewriting is possible.

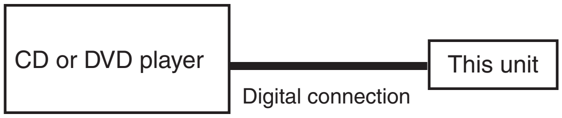
[Tools to be used]

Please use DVD player based on MTK system (DV-270, 370, 373, 575K, 280, 380, 383, etc.) ,Mitsubishi system (DV-59AVi, 868AVi, S969AVi, 668AVi, etc.) or Fujitsu system (DV-343, 444, 545, etc.) DO NOT use DVD player based on ST system (DV-353, 454, 250, 400, 555K, 260, 363, 464, 466, 563, etc.) The factory confirmed that DVD players based on ST system cannot send the correct data to the VSX unit using the update disc.
You can check the base system of our DVD players on the firmware version list at PSN web (Niis)

- Coaxial cable or Optical cable
- Update disc(CD-R disc)
- Headphone

[Connections]

Connect this unit and a player, as shown in the figure below.



[Preparations]

Burn the DSP flash ROM firmware (.wav file) to a CD-R disc using commercially available burning software.
It is necessary to select the writing format to "For music player", not "For PC data".
Note:
Depending on a burning software, data on a CD-R may not be worked for updating the DSP flash ROM.
If the HDMI indicator does not flash when playing back a update disc, the disc is not able to use for updating.
Burn the DSP flash ROM firmware to a CD-R disc, using other burning software.

[Note]

- **Do NOT disconnect the AC cords of this unit nor the CD/DVD player while rewriting is in progress.**
- **The "OK" indication displayed after updating means the checksum on the flash ROM is OK.
  If the "OK" indication is not displayed, updating has not been completed.**

Note that confirmation with audio check or version check is insufficient for checking if updating has been completed.
If you set the unit to STANDBY OFF without confirming of "OK" indication on the FL display, be sure to perform the updating procedures again.

[Procedures]

1. Check the versions of the DSP and microcomputer.
   Check the versions by referring to "Version indication" in "6.1 SERVICE MODE (P.75)".

2. Connect a CD or DVD player.
   (1) Connect the CD or DVD player to be used for updating to any digital input connector of this unit.
   (2) With the INPUT SELECTOR, select the input being used.

3. Check if the digital signal is locked (received).
   (1) Play back a stream for updating with the player.
   (2) Set the receiver to normal setting, "Signal Select" to Auto, then check on the Signal Select indicator whether the input is set to Auto and Digital.

[Procedures]

4. Start up this unit in writing mode.
   (1) Relocate the CD playback starting point to the beginning (time: 0:00) of the track No and pause playback.
   (2) Set the volume of the receiver to - ∞ dB and set the receiver to STANDBY OFF.
   (3) Press the ENTER key and Multi-Zone & Source/REC SEL ON/OFF key simultaneously for 3 seconds.
   (4) Press "↑" key until it enters the predetermined mode.
      When DSP1 is downloaded:
        Display: DSP1 DL [START] → Press the Enter key. → Display: DSP1 DL [GO ON]
      When DSP2 is downloaded:
        Display: DSP2 DL [START] → Press the Enter key. → Display: DSP2 DL [GO ON]

5. Play back the track on CD disc.
   (1) Release Pause mode of the player and play back the track where the DSP program stream signal to be burned is stored.
   (2) After 5-10 seconds, the HDMI indicator starts flashing. Be sure to check that it is flashing.
   (3) Flashing indicates that a correct stream is being received and that updating is in progress.

   Note: Do NOT turn off the unit while the HDMI indicator is flashing. If the unit is turned off, be sure to go back to Step 4. (As the Flash ROM goes into unusual status if the power is off during rewriting, the unit may not start properly.) Even in such a case, you can restore the unit by performing Steps 4 to 7.

6. Wait until rewriting is completed.
   (1) Basically, wait until "OK" is displayed on the FL display. It takes about 2 minutes for updating DSP1 and about 15 seconds for updating DSP2.
   (2) After confirming that "OK" is displayed, stop or pause the player then after 5 seconds set the player to STANDBY OFF.

7. Check the version of the program after updating.
   (1) Check the version by simultaneously pressing and holding the ENTER key and Multi-Zone & Source/REC SEL ON/OFF keys.
   (2) Press "↓" key to check the predetermined version.
      DSP1 version: f…….
      DSP2 version: s…….
   (3) For confirmation, check basic operations.

■ Troubleshooting of DSP FLASH ROM UPDATE

Symptoms	Items to be checked
The HDMI indicator does not start flashing, and 10 seconds or more has elapsed after a updating stream is input.	Is DSP writing mode entered? (Simultaneously press and hold the ENTER and VIDEO Multi-Zone & Source/REC SEL ON/OFF keys.)
	Is DIR locked? → You can check this on the Signal Select indicator if the input is set to Auto and Digital. If DIR is not locked, check the input function and digital connections between the player and this unit.
	Is the stream (Track No., etc.) being played back correct?
	Are compressed audio signals, such as WMA, being input when or after writing mode is entered ? → As soon as the compressed audio signals are input, writing mode is exited. It is recommended that playback be paused at the beginning of the track of a updating stream then writing mode is entered by simultaneous pressing of the keys. Release Pause mode after entering of writing mode is confirmed.
Writing mode is not entered upon simultaneous pressing of the ENTER and Multi-Zone & Source/REC SEL ON/OFF keys.	Is the volume control of the receiver set to -∞ dB? If not, set it to -∞ dB (- - -).
	Reset the receiver then enter writing mode. **Note:** All the user data stored in the receiver are cleared when the receiver is reset.
"OK" is not displayed.	Is the track played back from the beginning to the end? → With the receiver in writing mode, be sure to play back the stream track twice.
	If an error is generated because any scratches on the disc, "OK" is not displayed. → In such a case, play back the same stream stored on another track as backup.

8.3 HOW TO UPDATE THE FLASH ROMS FOR VARIOUS MICROCOMPUTERS

■ HDMI, MAIN, DSP and EVENT microcomputer

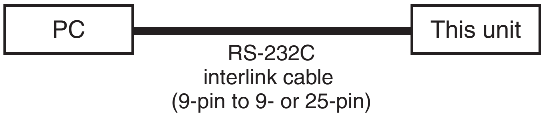
[Purpose]

Refer to this section when updating of a Flash ROM is required by the service information, etc.

[Tools to be used]

- PC with a serial port
- RS-232C cable (9-pin to 9- or 25-pin, interlink)
- Firmware ("mot" extension)
- Program for updating (ufu.exe: ver. 1.08)

[Connections] (MAIN microcomputer)
(DSP microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)
Connect as indicated in the figure right:



[Note]

Do NOT disconnect the AC power cords of this unit nor the PC.

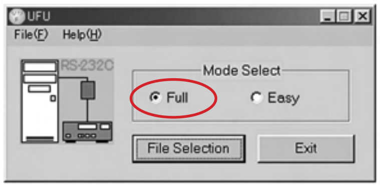
[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C interlink cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at Service mode.
5. (HDMI microcomputer)
   Press ↓ key and select “HDMI DL [START]” display.
   Press ENTER key and set to “HDMI DL [GO ON]”.

   (MAIN microcomputer)
   Press ↓ key and select “MAIN DL [START]” display.
   Press ENTER key and set to “MAIN DL [GO ON]”.

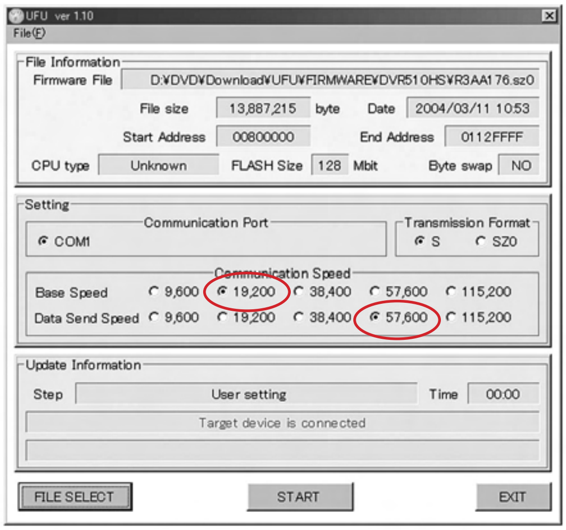
   (DSP microcomputer)
   Press ↓ key and select “DSPM DL [START]” display.
   Press ENTER key and set to “DSPM DL [GO ON]”.

   (EVENT microcomputer)
   Press ↓ key and select “EVNT DL [START]” display.
   Press ENTER key and set to “EVNT DL [GO ON]”.
6. Double-click on "ufu.exe".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "mot" extension.
9. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600
10. Click on "START" button.
11. "Completed" is displayed in the"ufu.exe" window.
12. Disconnect then reconnect the AC power cord of the unit. If the unit is not reset, retry from Step 2.
13. Check the version.
    Following the procedures described in "Version indication" in "6.1 SERVICE MODE (P.75)", check that the version has been changed to a new one.



Mode Select: ● Full ○ Easy

Check that "Full" is selected in MODE SELECT.



File Information
Firmware File: D:¥DVD¥Download¥UFU¥FIRMWARE¥DVR510HS¥R3AA176.sz0
File size: 13,887,215 byte
Date: 2004/03/11 10:53
Start Address: 00800000
End Address: 0112FFFF
CPU type: Unknown
FLASH Size: 128 Mbit
Byte swap: NO

Setting
Communication Port: ● COM1
Transmission Format: ● S ○ SZ0
Communication Speed
Base Speed: ○ 9,600 ● 19,200 ○ 38,400 ○ 57,600 ○ 115,200
Data Send Speed: ○ 9,600 ○ 19,200 ○ 38,400 ● 57,600 ○ 115,200

Update Information
Step: User setting
Time: 00:00
Target device is connected

Select the communication speed.
- Basic speed: 19200
- Data transfer speed: 57600

■ USB (VSX-LX60)

[Purpose]

Refer to this section when updating the USB firmware is required by the service information, etc.
It is able to update the USB firmware by using USB flash memory.

[Necessary Tools]

- USB Flash Memory which is saved the firmware file ("player.rom" file).

Note:
In rare cases, it is not able to update the firmware depending on the type of USB flash memory.
In such a case, try to use other model of USB flash memory.

[Procedures]

1. Turn on the unit then press and hold "↑" and "POWER" key for about 5sec.

2. "WAITING" is appeared on the FL display.

3. "CORE*.**" is appeared on the FL display. (*.** : F/W version No.)

4. Connect the USB flash memory which is saved the firmware file ("player.rom" file).

5. "UPDT" is displayed on the FL display.

6. Wait until "COMPLETE" is appeared on the FL display.

7. Disconnect the USB flash memory then set the function setting to anything other than USB.

8. Turn off the unit (Standby mode).

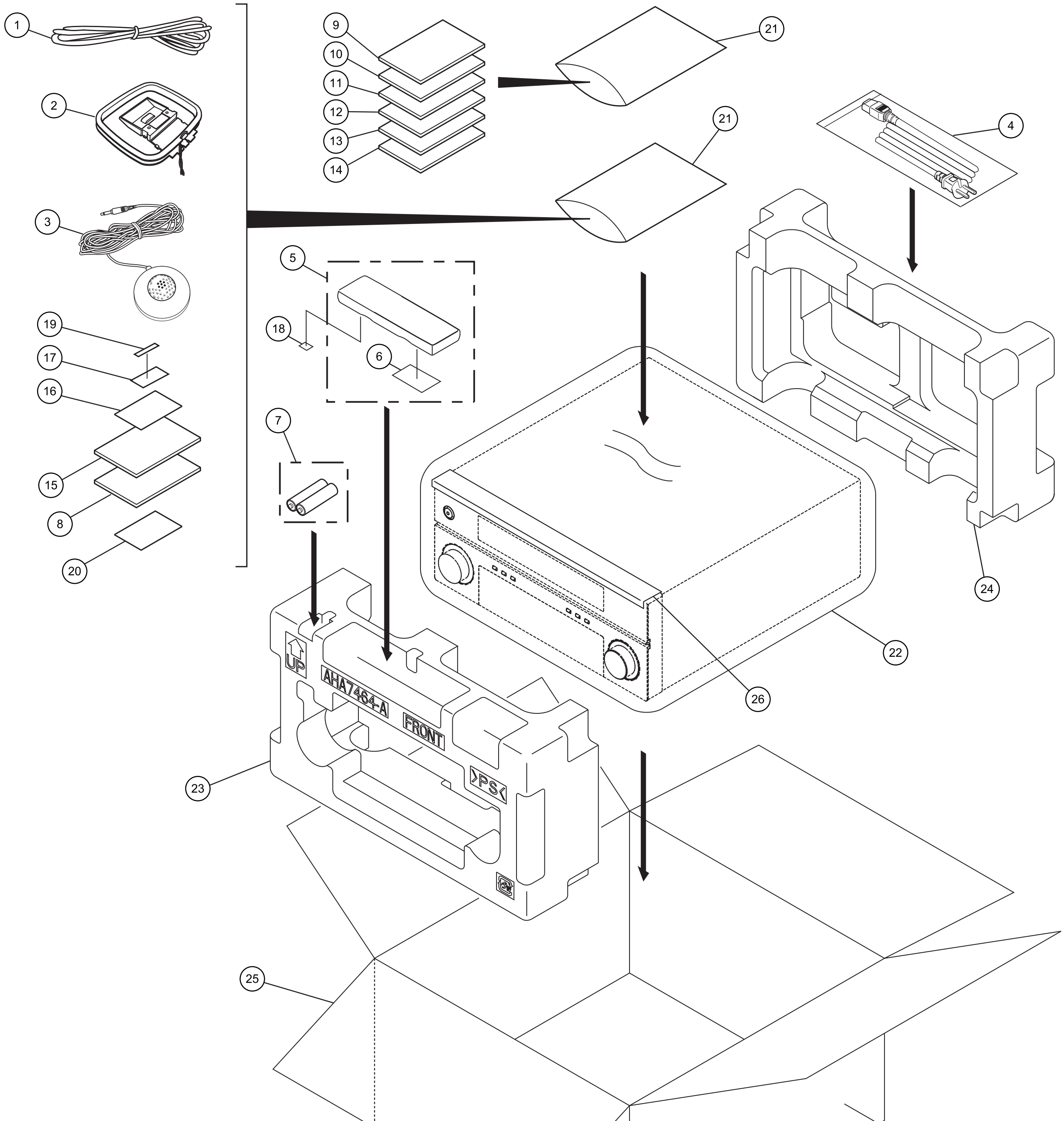
Notes:

- Do NOT reconnect the USB flash memory which is saved the "player.rom" file.
- Do NOT change the function setting or turn off the power during step 4 through 6.
  If you do, the updating is failed and it is required to replace the USB flash ROM on the USB module.

9. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING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(1) PACKING SECTION PARTS LIST

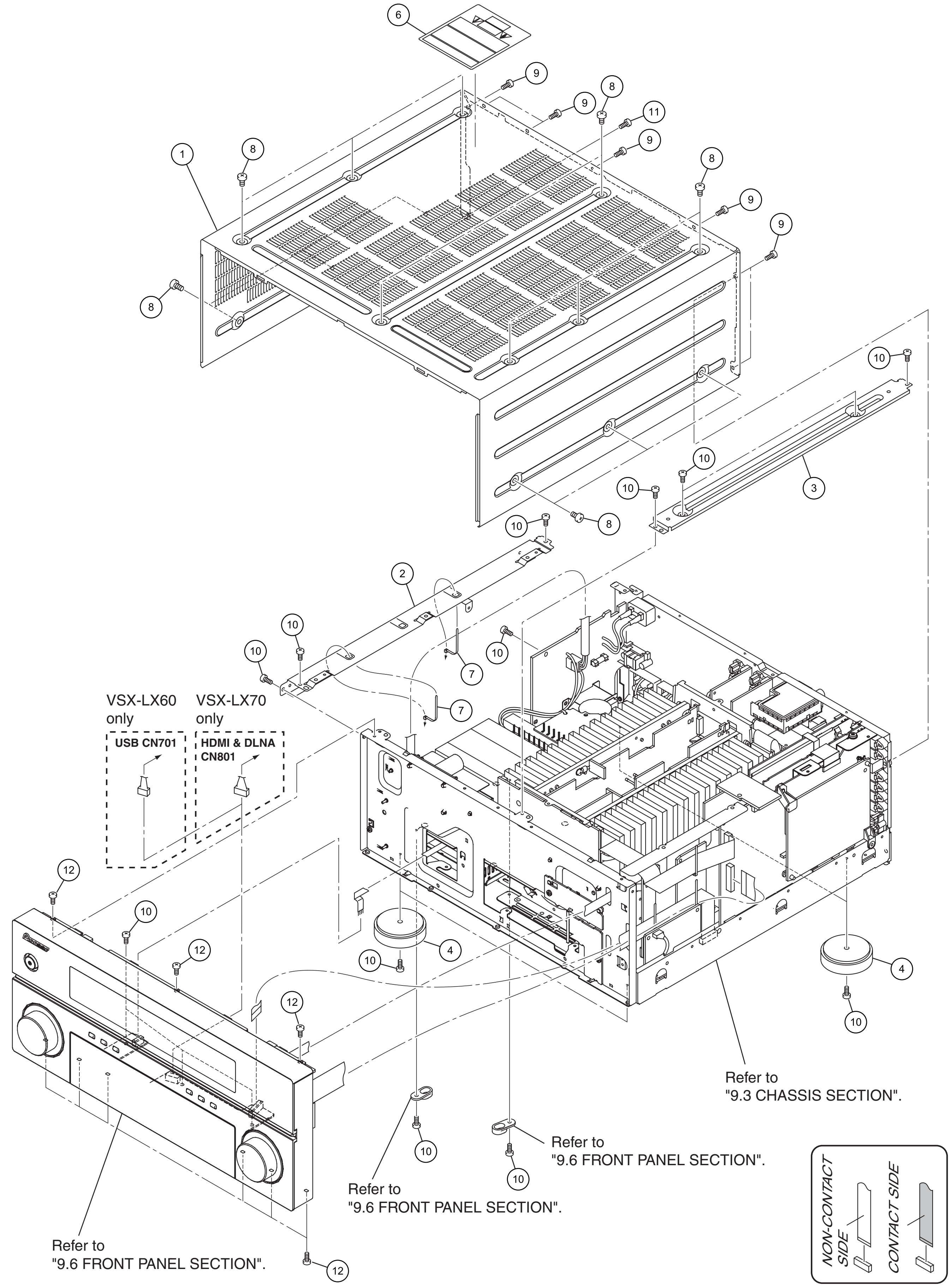
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7030
	2	AM Loop Antenna	ATB7013
	3	Setup Microphone (for Auto MCACC setup)	APM7008
⚠	4	AC Power Cord	ADG7062
	5	Remote Control Unit	See Contrast table (2)
	6	Battery Cover	XZN3140
NSP	7	AA/IEC R6P Dry Cell Batteries	VEM1031
	8	Operating Instructions (English)	ARB7381
	9	Operating Instructions (French)	ARC7749
	10	Operating Instructions (German)	ARC7750
	11	Operating Instructions (Italian)	ARC7751
	12	Operating Instructions (Spanish)	ARC7752
	13	Operating Instructions (Dutch)	ARC7753
	14	Operating Instructions (Russian)	ARC7769
	15	Operating Instructions (7L)	See Contrast table (2)
	16	Caution Sheet (SP, E)	ARM7056
NSP	17	Warranty Card	ARY7065
	18	Label (WEEE)	ARW7322
NSP	19	Label	VRW1629
	20	Disclaimer (6L)	XRM3010
NSP	21	Polyethylene Bag	AHG7117
	22	Packing Sheet	RHC1023
	23	Front Pad LX50	AHA7464
	24	Rear Pad LX50	AHA7465
	25	Packing Case	See Contrast table (2)
NSP	26	Spacer LX60	AHC7043

(2) CONTRAST TABLE

VSX-LX70/HYXJ5 and VSX-LX60/HYXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX60/ HYXJ5
	5	Remote Control Unit	AXD7505	AXD7502
	15	Operating Instructions (7L)	ARE7633	Not used
	25	Packing Case	AHD8550	AHD8549

9.2 EXTERIOR SECTION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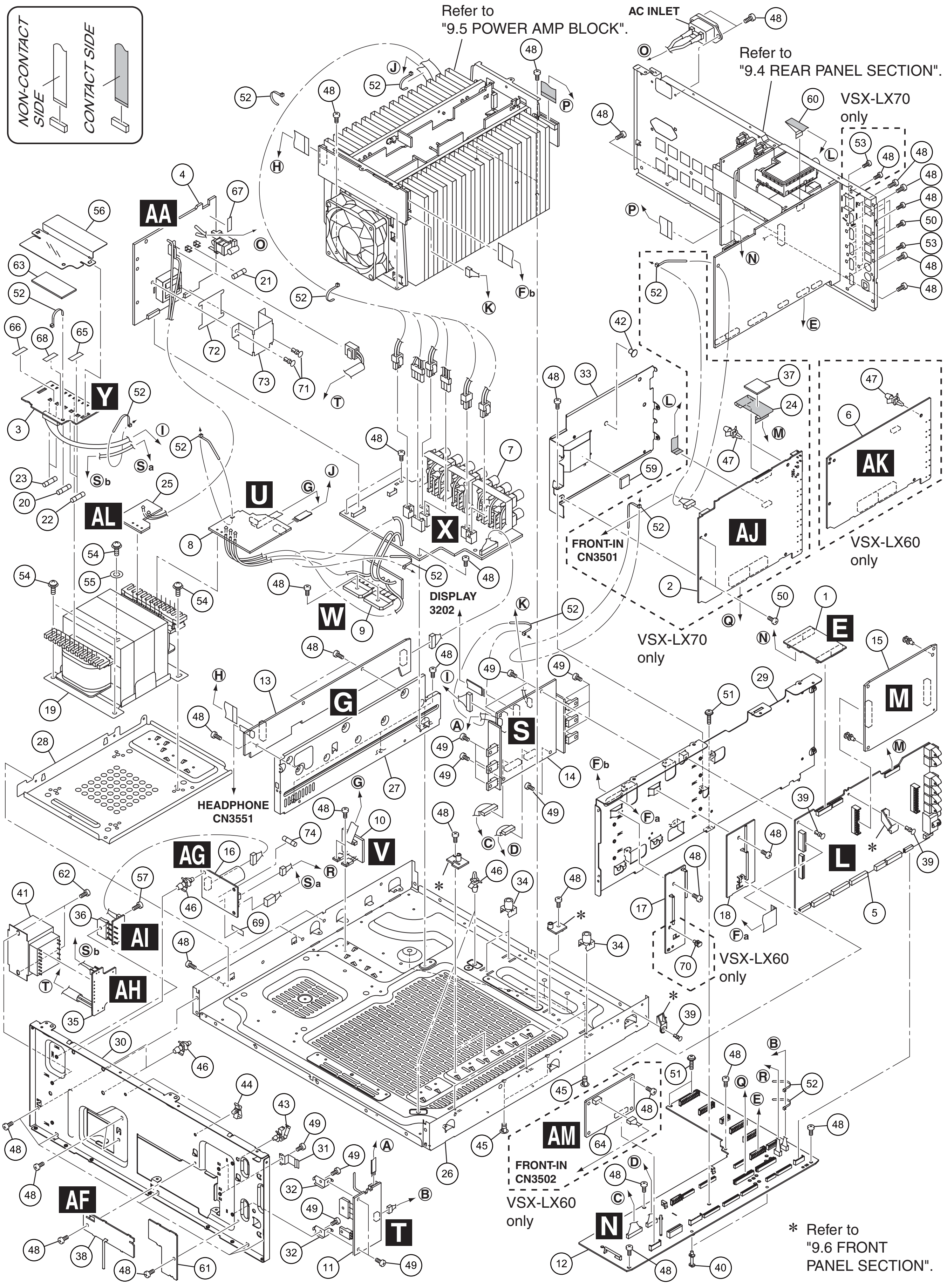
VSX-LX60 only
VSX-LX70 only
USB CN701
HDMI & DLNA CN801
Refer to "9.3 CHASSIS SECTION".
Refer to "9.6 FRONT PANEL SECTION".
Refer to "9.6 FRONT PANEL SECTION".
Refer to "9.6 FRONT PANEL SECTION".
NON-CONTACT SIDE
CONTACT SIDE

(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Bonnet 60	AZN8028
	2	Left Beam 45	ANG7401
	3	Center Beam V1	ANG7482
	4	Insulator Assembly	DXA1904
	5	• • • • •	
	6	Label (LICENSE HD)	ARW7359
	7	Binder (BK-1)	ZCA-BK1
	8	Screw	BCZ40P060FTB
	9	Screw	BBZ30P060FCC
	10	Screw	BBZ30P080FCC
	11	Screw	IBP30P090FCC
	12	Screw	BBT30P080FCC

9.3 CHASSIS SECTION


NON-CONTACT SIDE
CONTACT SIDE
Refer to "9.5 POWER AMP BLOCK".
AC INLET
Refer to "9.4 REAR PANEL SECTION".
VSX-LX70 only
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VSX-LX60 only
FRONT-IN CN3501
DISPLAY 3202
HEADPHONE CN3551
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FRONT-IN CN3502
VSX-LX60 only
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VSX-LX70 only
VSX-LX60 only
∗ Refer to "9.6 FRONT PANEL SECTION".
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(1) CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
NSP	1	BRIDGE 1 Assy	AWX8934
	2	HDMI & DLNA Assy	See Contrast table (2)
	3	TRANS 2-2 Assy	AWX8891
	4	PRIMARY Assy	AWX8895
	5	DIGITAL MOTHER Assy	See Contrast table (2)
	6	HDMI & DVC Assy	See Contrast table (2)
	7	SP/PS Assy	See Contrast table (2)
	8	TRANS 2-1 Assy	AWX8914
NSP	9	DIODE Assy	AWX8915
	10	VH TR Assy	AWX8916
	11	DC/DC Assy	See Contrast table (2)
	12	INTERFACE Assy	See Contrast table (2)
NSP	13	TRANS SIDE Assy	AWX8921
	14	LOCAL SUPPLY Assy	AWX8924
	15	DSP Assy	AWX8869
NSP	16	HDMI POWER Assy	AWX8933
NSP	17	FFC Guard (Front) Assy	AWX8899
NSP	18	FFC Guard (Side) Assy	See Contrast table (2)
⚠	19	Power Transformer (T1501)	ATS7403
⚠	20	Fuse (FU4 : T4AL/250V)	REK1028
⚠	21	Fuse (FU1 : T5AL/250V)	REK1029
⚠	22	Fuse (FU5, 6 : T800mAL/250V)	REK1021
⚠	23	Fuse (FU7, 8 : T2.5AL/250V)	REK1026
	24	22P Flexible Cable (J52)	See Contrast table (2)
	25	TRANS 1 Assy	• • • • •
NSP	26	Under Base 72	ANA7182
	27	Under Beam V1	ANG7478
NSP	28	Trans. Frame 74	ANG7539
NSP	29	DSP Shield 60	ANG7604
NSP	30	Panel Stay 60	ANG7588
NSP	31	Transistor Holder	ANG7543
NSP	32	DC Assy Holder	ANG7544
	33	HDMI Shield 60	ANK7137
	34	PCB Mold	AMR2534
	35	HDMI TRANS Assy	AWX8939
	36	HDMI DIODE Assy	AWX8940
	37	Shield Cushion	See Contrast table (2)

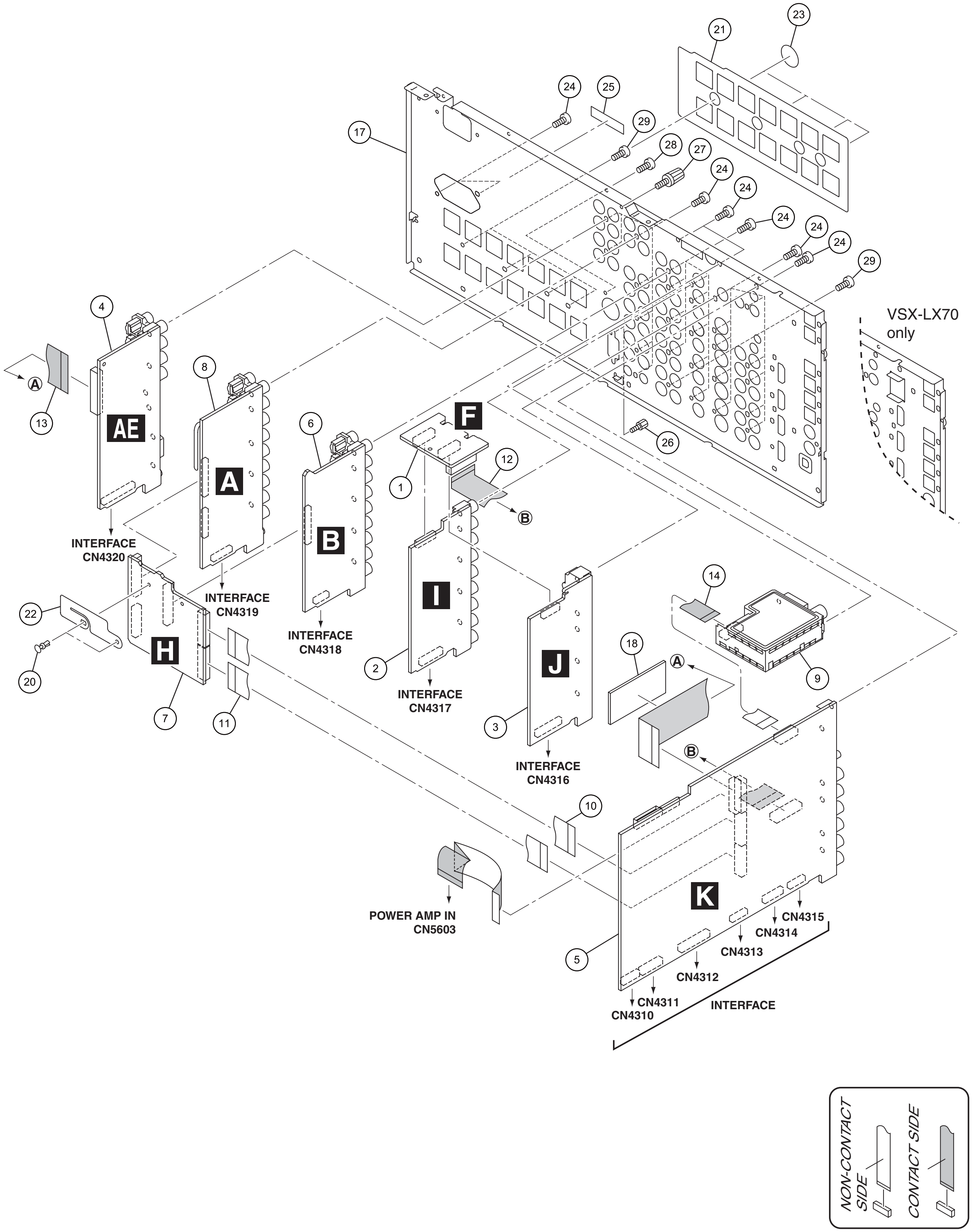
Mark	No.	Description	Part No.
NSP	38	FR IN BARRIER1 Assy	AWX8948
	39	Nyron Rivet	AEC7408
	40	Card Spacer	AEC7502
⚠	41	Power Transformer (T1502)	ATT7104
NSP	42	PCB Spacer	AEC1084
	43	Locking Wire Saddle	AEC7550
	44	Side Clamp	DEC2007
	45	Card Spacer	DNK2769
	46	Locking Card Spacer	PNW2917
NSP	47	PC Support	VEC1749
	48	Screw	BBZ30P080FCC
	49	Screw	BBZ30P060FCC
	50	Screw	BBZ26P080FCC
	51	Screw 3 x 15	ABA7100
NSP	52	Binder (BK-1)	ZCA-BK1
	53	Screw	PMZ30P060FCC
	54	Screw	ABA7125
	55	Washer	WH40FNI
	56	Trans Barrier 60	AEC7588
	57	Screw	IBZ30P080FCC
	58	• • • • •	
	59	Raditation Sheet	PEB1306
	60	7P Flexible Cable (J55)	ADD7611
NSP	61	FR IN Barrier 2	• • • • •
	62	Screw	IBP30P090FCC
	63	Barrier Cushion	AEB7391
	64	USB Assy	See Contrast table (2)
NSP	65	Fuse Card (800mA, 250V)	AAX2367
NSP	66	Fuse Card (T2.5AL/250V)	AAX7277
NSP	67	Fuse Card (5A, 250V)	AAX7098
NSP	68	Fuse Card (4.0A, 250V)	AAX7099
NSP	69	Fuse Card (T1.6AL/250V)	AAX2377
	70	Card Spacer	See Contrast table (2)
	71	Nylon Rivet	AEC7406
	72	Primary Barrier	AEC7569
	73	Shield Case	AMR7526
⚠	74	Fuse (FU9 : T1.6AL/250V)	REK1024

(2) CONTRAST TABLE

VSX-LX70/HYXJ5 and VSX-LX60/HYXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX60/ HYXJ5
NSP	2	HDMI & DLNA Assy	AWX8974	Not used
	5	DIGITAL MOTHER Assy	AWP7047	AWP7053
	6	HDMI & DVC Assy	Not used	AWX8975
	7	SP/PS Assy	AWX8910	AWX8912
	11	DC/DC Assy	AWX8917	AWX8918
	12	INTERFACE Assy	AWX8949	AWX8941
	18	FFC Guard (Side) Assy	AWX8937	AWX8938
	24	22P Flexible Cable (J52)	ADD7633	Not used
	37	Shield Cushion	AEB7372	Not used
	64	USB Assy	Not used	AWX8944
	70	Card Spacer	Not used	AEC7214

9.4 REAR PANEL SECTION



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VSX-LX70 only
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INTERFACE CN4318
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INTERFACE CN4316
POWER AMP IN CN5603
CN4315
CN4314
CN4313
CN4312
CN4311
CN4310
INTERFACE
NON-CONTACT SIDE
CONTACT SIDE

(1) REAR PANEL SECTION PARTS LIST

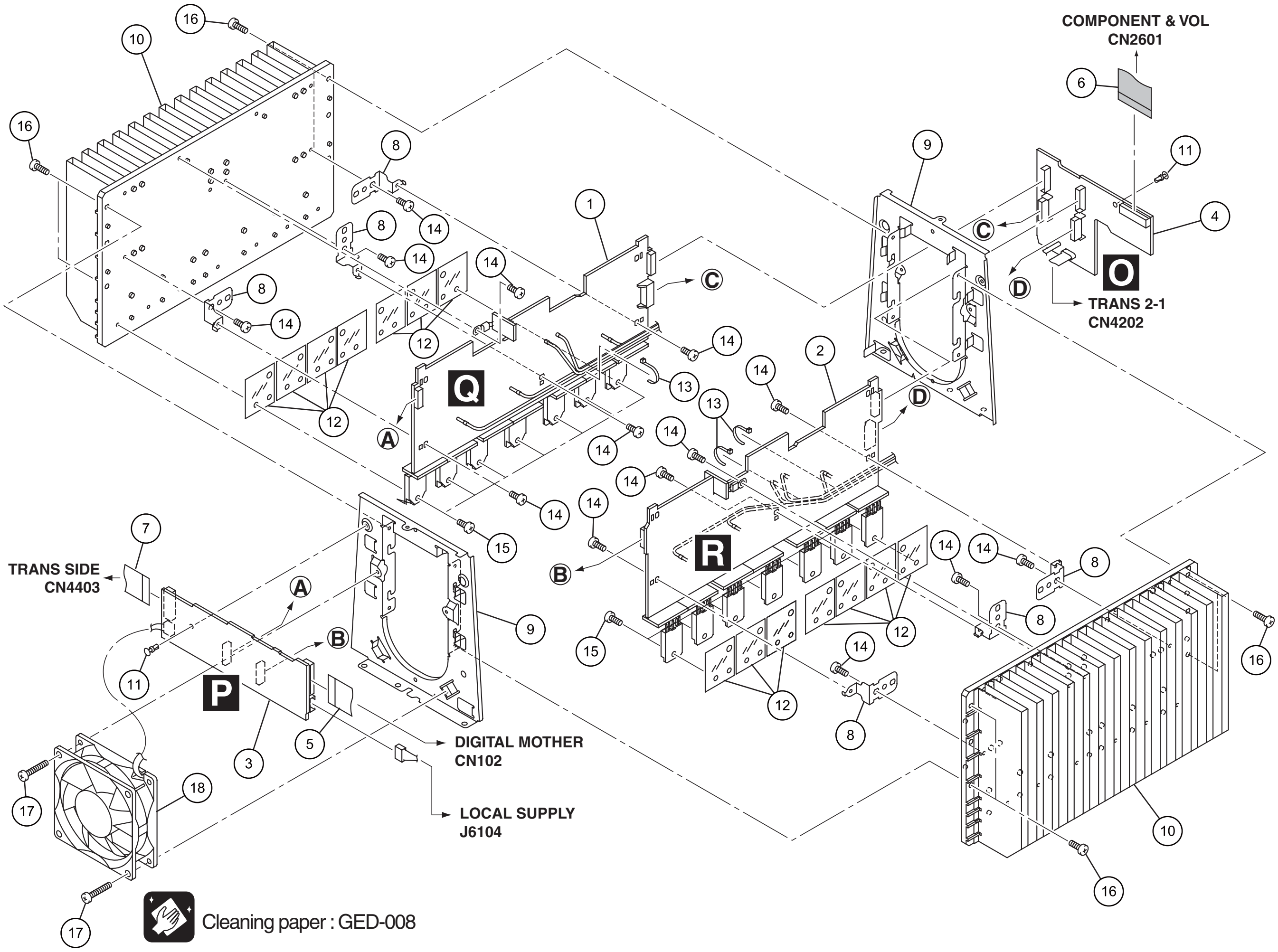
Mark	No.	Description	Part No.
NSP	1	BRIDGE 2 Assy	AWX8935
	2	COMPOSITE V Assy	AWX8972
	3	S VIDEO Assy	AWX8973
	4	PREOUT & CONTROL Assy	AWX8889
	5	COMPONENT & VOL Assy	See Contrast table (2)
	6	V-AUDIO Assy	AWX8931
NSP	7	BRIDGE 3 Assy	AWX8936
	8	AUDIO & MULTI CH IN Assy	AWX8927
	9	FM/AM TUNER Unit	AXX7248
	10	19P Flexible Cable (J45)	ADD7537
	11	15P Flexible Cable (J46)	ADD7613
	12	17P Flexible Cable (J47)	ADD7534
	13	24P Flexible Cable (J48)	ADD7612
	14	11P Flexible Cable (J54)	ADD7536
	15	• • • • •	
	16	• • • • •	
	17	Rear Panel	See Contrast table (2)
	18	FFC Cushion	AEB7373
	19	• • • • •	
	20	Nyron Rivet	AEC7408
	21	SP Sheet 74	AEC7537
NSP	22	Connect Barrier	AEC7541
	23	Cushion Circle 16B	AED7052
	24	Screw	BBZ30P080FCC
NSP	25	Label	VRW1629
	26	Screw 2.85 x 7	ABA7078
	27	Terminal Screw	AKE-031-0
	28	Screw	BBZ26P080FCC
	29	Screw	BBT30P100FCC

(2) CONTRAST TABLE

VSX-LX70/HYXJ5 and VSX-LX60/HYXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX60/ HYXJ5
	5	COMPONENT & VOL Assy	AWQ7042	AWQ7047
	17	Rear Panel 70HY	ANC8485	Not used
	17	Rear Panel 60HY	Not used	ANC8490

9.5 POWER AMP SECTION



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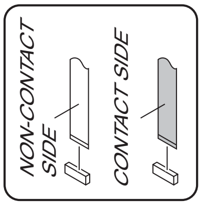
Cleaning paper : GED-008

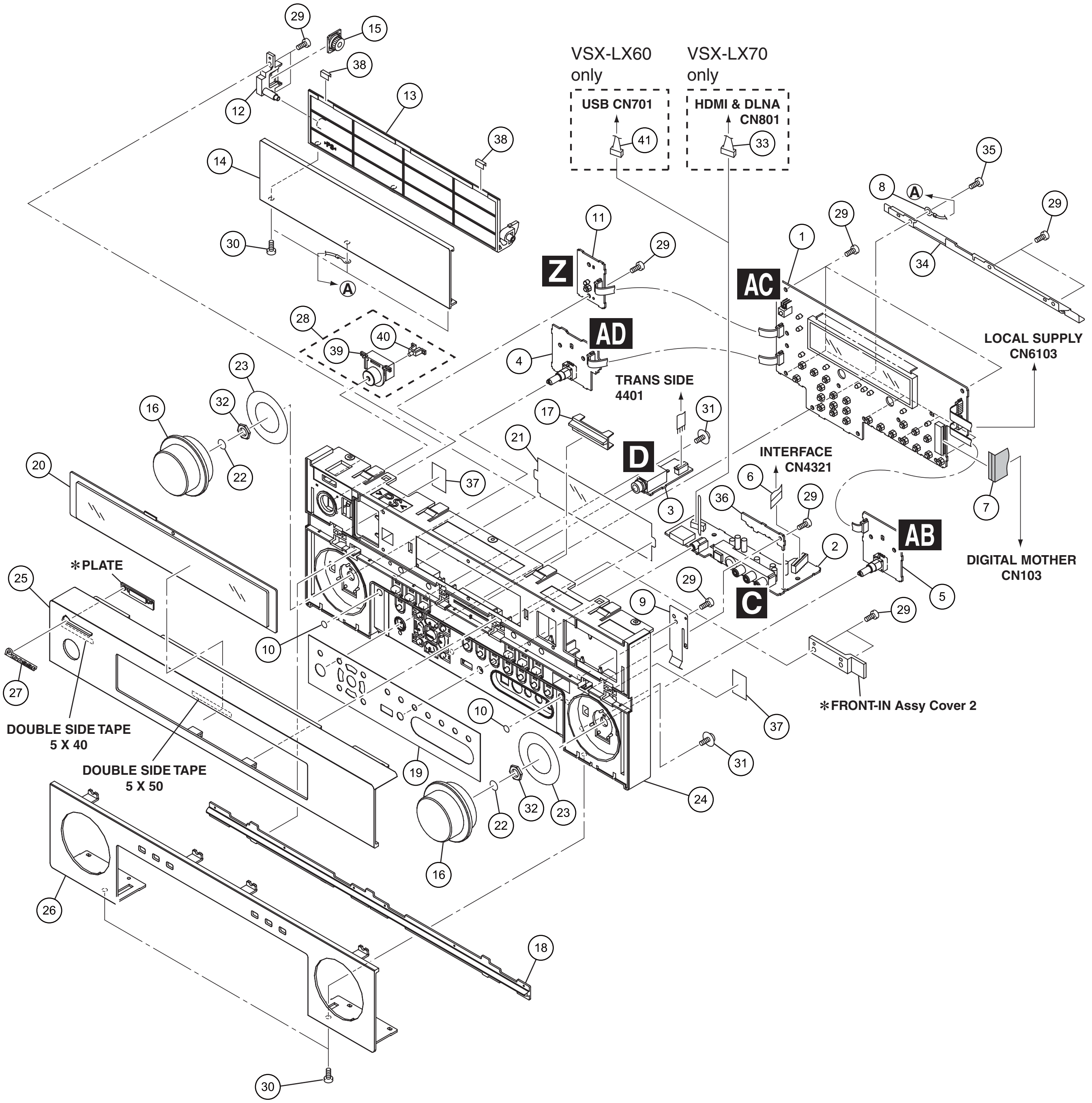


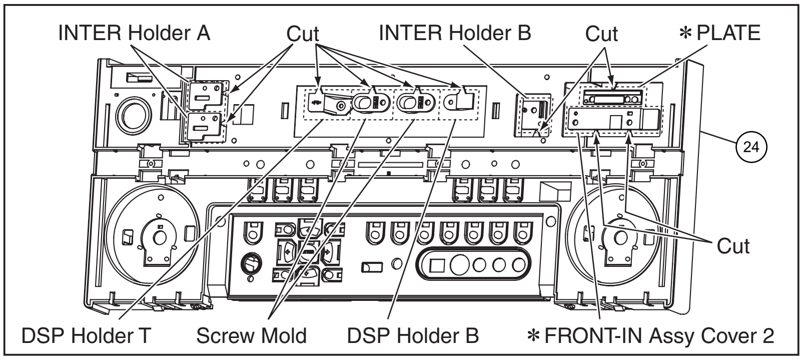
NON-CONTACT SIDE
CONTACT SIDE

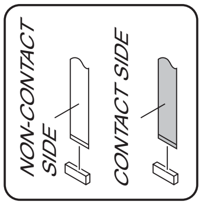
(1) POWER AMP SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	POWER AMP-L Assy	AWX8655
	2	POWER AMP-R Assy	AWX8657
	3	POWER PROTECT Assy	AWX8659
	4	POWER AMP IN Assy	AWX8662
	5	19P Flexible Cable (J43)	ADD7509
	6	19P Flexible Cable (J44)	ADD7535
	7	17P Flexible Cable (J51)	ADD7516
	8	PCB Angle 45	ANG7406
NSP	9	HS Angle 74	ANG7542
NSP	10	Heatsink 74	ANH7181
	11	Nyron Rivet	AEC7408
	12	Mica Sheet	AEC7545
NSP	13	Binder (BK-1)	ZCA-BK1
	14	Screw	BBZ30P080FCC
	15	Screw 3 x 19	ABA7085
	16	Screw	BBT30P100FCC
	17	Screw	BBZ30P300FTC
⚠	18	DC Fan Motor	AXM7029

9.6 FRONT PANEL SECTION


29
15
38
12
13
14
38
30
A
A
28
40
39
23
16
32
22
20
25
*PLATE
27
DOUBLE SIDE TAPE
5 X 40
DOUBLE SIDE TAPE
5 X 50
26
30
18
16
22
32
23
19
10
10
24
VSX-LX60
only
USB CN701
41
VSX-LX70
only
HDMI & DLNA
CN801
33
11
29
Z
AD
4
TRANS SIDE
4401
17
21
37
D
3
31
AC
1
29
8
35
29
34
LOCAL SUPPLY
CN6103
INTERFACE
CN4321
6
36
29
2
C
29
9
AB
5
7
DIGITAL MOTHER
CN103
29
*FRONT-IN Assy Cover 2
37
31


INTER Holder A
Cut
INTER Holder B
Cut
*PLATE
24
Cut
DSP Holder T
Screw Mold
DSP Holder B
*FRONT-IN Assy Cover 2


NON-CONTACT SIDE
CONTACT SIDE

(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY Assy	AWX8900
	2	FRONT-IN Assy	See Contrast table (2)
	3	HEADPHONE Assy	AWX8905
	4	INPUT SELECT Assy	AWX8906
	5	VOLUME Assy	AWX8907
	6	15P Flexible Cable (J41)	ADD7610
	7	31P Flexible Cable (J42)	ADD7609
NSP	8	Cord with Plug	ADH7022
	9	Door Spring	ABK7061
	10	Cushion Circle 6B	AED7083
	11	POWER SW Assy	AWX8908
	12	Door Shaft 60	AMR7531
	13	Door Base 60HY	AMR7529
	14	Door Panel 60HY	ANB7471
	15	Damper Assy (240)	AXA7136
	16	VOL. Knob	AAA7052
	17	IB Lens 60	AAK8379
	18	Center Lens 60	AAK8380
	19	Door Sheet 60HY	AAK8405
	20	Window 60HY	AAK8396

Mark	No.	Description	Part No.
	21	Filter 60HY	AAK8413
	22	VOL Ring 60	ABH7249
	23	Knob Spacer 74	AEC7558
	24	Panel Base 60HY	AMB7973
	25	Front Panel TOP	See Contrast table (2)
	26	Front Panel BTM 60HY	ANB7467
	27	Pioneer Badge (AL)	BAM1004
	28	STBY BTN LXHY Assy	AAD7773
	29	Screw	BBZ30P080FNI
	30	Screw	BBZ30P080FTB
	31	Screw	ABA7110
	32	Nut	NK90FTC
	33	5P Shielded Cable	See Contrast table (2)
	34	Panel Beam 60	ANG7590
	35	Screw	BBZ30P100FTC
NSP	36	FRONT-IN Assy Cover1	• • • • •
	37	Cushion 15 X 20	AED7106
	38	Cushion 11 X 7	AED7092
	39	STBY BTN LXHY	AAD7772
NSP	40	STBY Lens V2	XAK3477
	41	4P Shielded Cable	See Contrast table (2)

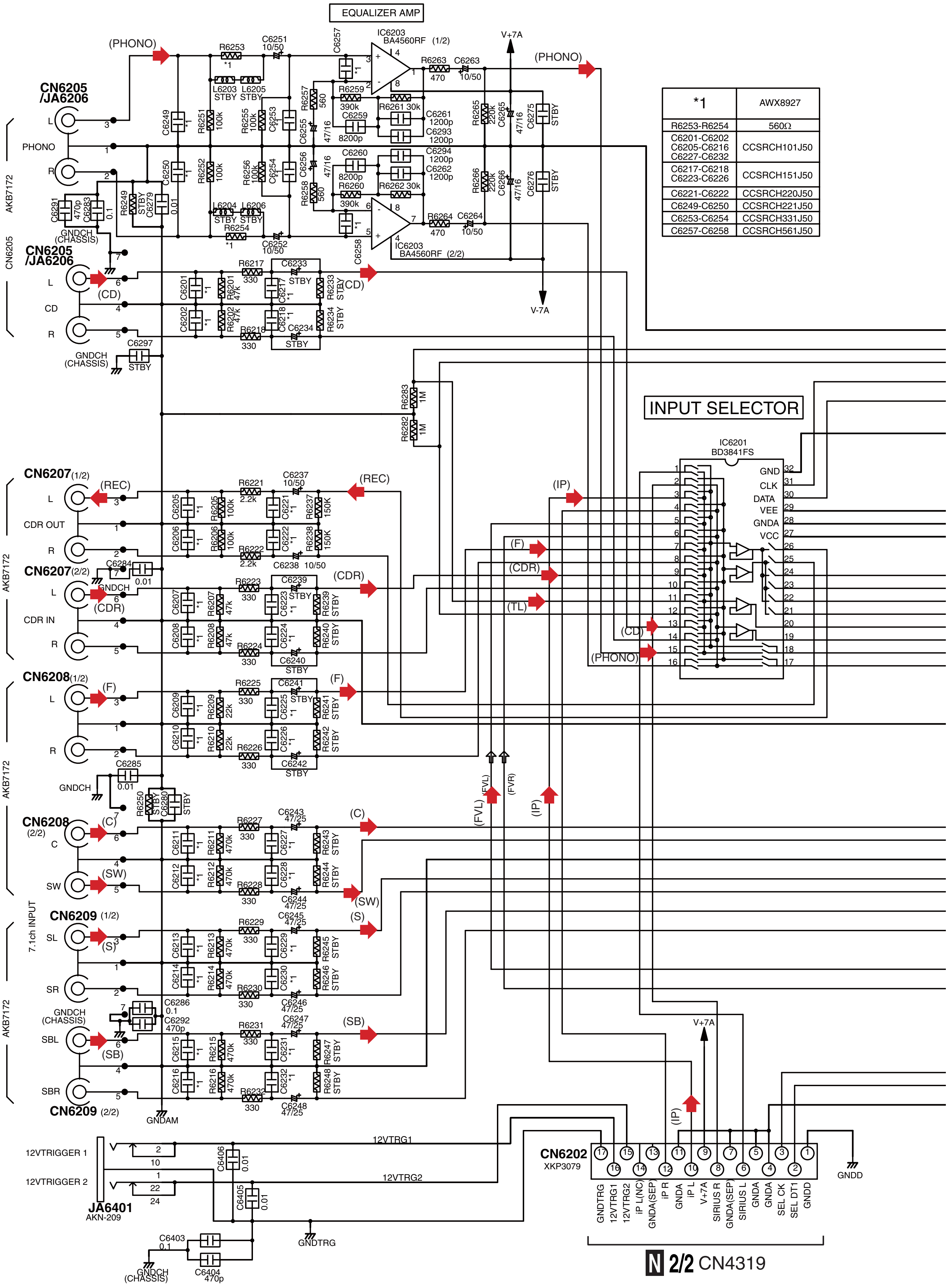
(2) CONTRAST TABLE

VSX-LX70/HYXJ5 and VSX-LX60/HYXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX60/ HYXJ5
	2	FRONT-IN Assy	AWX8902	AWX8904
	25	Front Panel TOP 70HY	ANB7463	Not used
	25	Front Panel TOP 60HY	Not used	ANB7460
	33	5P Shielded Cable	ADX7573	Not used
	41	4P Shielded Cable	Not used	ADX7615

10. SCHEMATIC DIAGRAM

10.1 AUDIO & MULTI CH IN ASSY

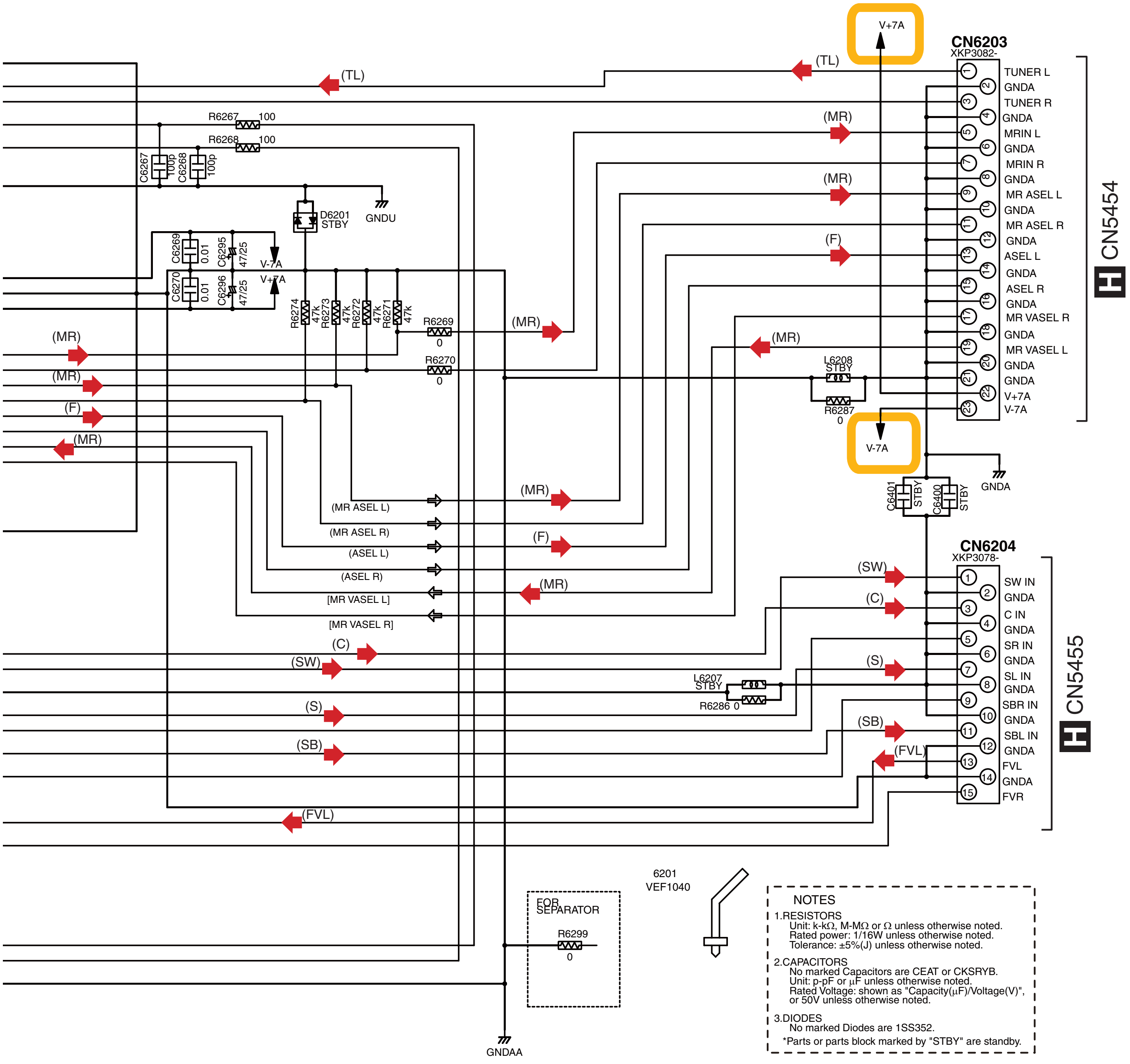

EQUALIZER AMP
IC6203
BA4560RF (1/2)
IC6203
BA4560RF (2/2)
V+7A
V-7A
(PHONO)
CN6205
/JA6206
PHONO
L
R
AKB7172
GNDCH
(CHASSIS)
CD
(CD)
CN6207(1/2)
(REC)
CDR OUT
CN6207(2/2)
CDR IN
(CDR)
CN6208(1/2)
(F)
CN6208(2/2)
C
SW
(C)
(SW)
7.1ch INPUT
CN6209 (1/2)
SL
SR
(S)
SBL
SBR
(SB)
CN6209 (2/2)
GNDAM
(FVL)
(FVR)
(IP)
(TL)
INPUT SELECTOR
IC6201
BD3841FS
GND
CLK
DATA
VEE
GNDA
VCC
12VTRIGGER 1
12VTRIGGER 2
JA6401
AKN-209
12VTRG1
12VTRG2
GNDTRG
GNDD
CN6202
XKP3079
GNDTRG
12VTRG1
12VTRG2
iP L(NC)
GNDA(SEP)
iP R
GNDA
iP L
V+7A
SIRIUS R
GNDA(SEP)
SIRIUS L
GNDA
GNDA
SEL CK
SEL DT1
GNDD
N 2/2 CN4319
1
2
3
4
A
B
C
D
E
F

*1	AWX8927
R6253-R6254	560Ω
C6201-C6202 C6205-C6216 C6227-C6232	CCSRCH101J50
C6217-C6218 C6223-C6226	CCSRCH151J50
C6221-C6222	CCSRCH220J50
C6249-C6250	CCSRCH221J50
C6253-C6254	CCSRCH331J50
C6257-C6258	CCSRCH561J50

(F) ➡ : AUDIO SIGNAL ROUTE(F)
(C) ➡ : AUDIO SIGNAL ROUTE(C)
(S) ➡ : AUDIO SIGNAL ROUTE(S)
(SB) ➡ : AUDIO SIGNAL ROUTE(SB)
(SW) ➡ : AUDIO SIGNAL ROUTE(SW)
(PHONO) ➡ : AUDIO SIGNAL ROUTE (PHONO)
(IP) ➡ : AUDIO SIGNAL ROUTE(IP)

(CD) ➡ : AUDIO SIGNAL ROUTE (CD)
(TL) ➡ : AUDIO SIGNAL ROUTE (TL)
(MR) ➡ : AUDIO SIGNAL ROUTE (MR)
(REC) ➡ : AUDIO SIGNAL ROUTE (REC)
(CDR) ➡ : AUDIO SIGNAL ROUTE (CDR)
(FVL) ➡ : AUDIO SIGNAL ROUTE (FVL)

A AUDIO & MULTI CH IN ASSY (AWX8927)

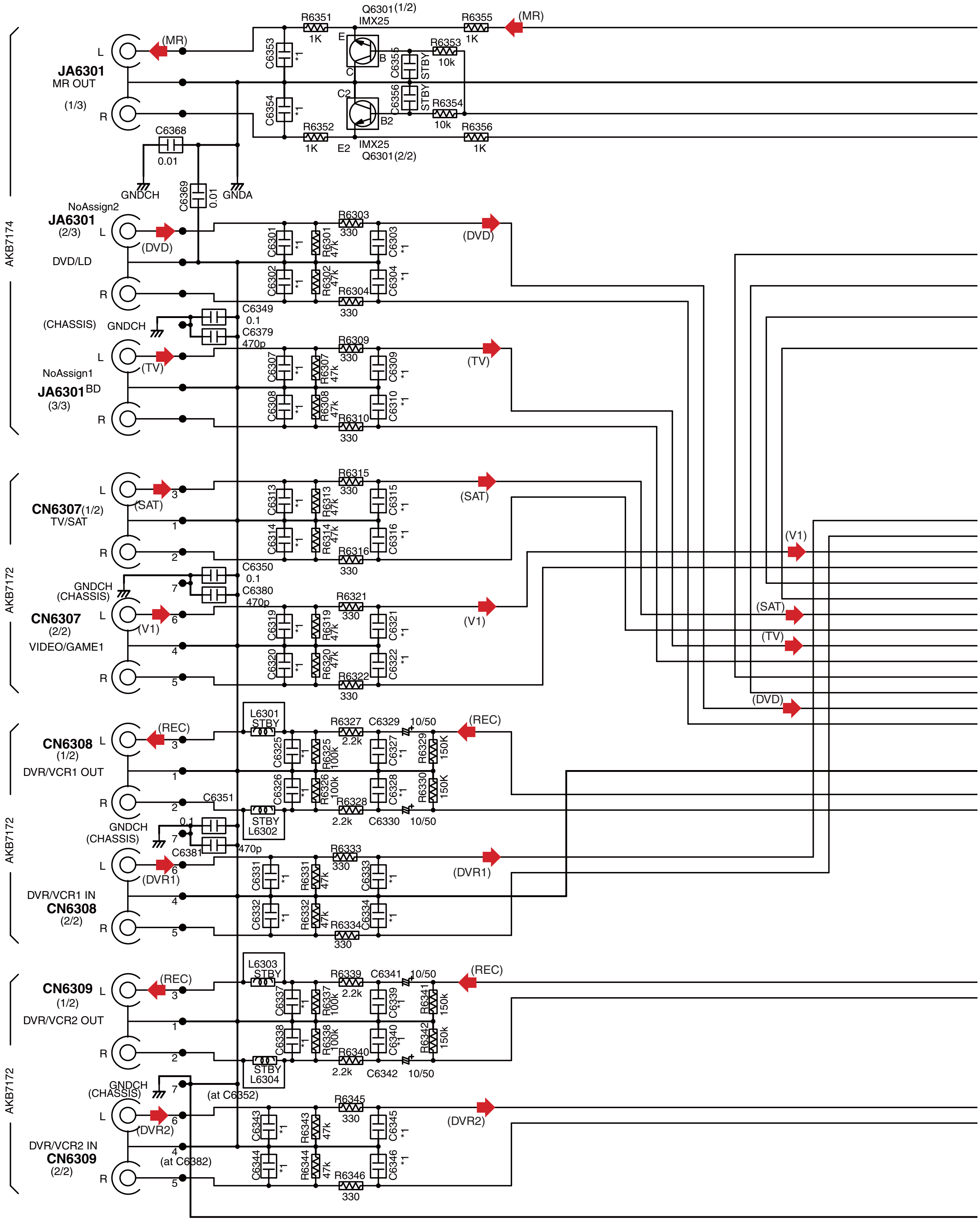


V+7A
CN6203
XKP3082-
(TL)
(TL)
R6267 100
R6268 100
C6267 100p
C6268 100p
(MR)
(MR)
D6201 STBY
GNDU
C6269 0.01
C6295 47/25
C6270 0.01
C6296 47/25
V-7A
V+7A
(F)
R6274 47k
R6273 47k
R6272 47k
R6271 47k
R6269 0
R6270 0
(MR)
(MR)
(MR)
(MR)
(F)
(MR)
L6208 STBY
R6287 0
1 TUNER L
2 GNDA
3 TUNER R
4 GNDA
5 MRIN L
6 GNDA
7 MRIN R
8 GNDA
9 MR ASEL L
10 GNDA
11 MR ASEL R
12 GNDA
13 ASEL L
14 GNDA
15 ASEL R
16 GNDA
17 MR VASEL R
18 GNDA
19 MR VASEL L
20 GNDA
21 GNDA
22 V+7A
23 V-7A
H CN5454
V-7A
GNDA
C6401 STBY
C6400 STBY
(MR ASEL L)
(MR ASEL R)
(ASEL L)
(ASEL R)
[MR VASEL L]
[MR VASEL R]
(MR)
(F)
(MR)
CN6204
XKP3078-
(SW)
(C)
(S)
(SB)
(FVL)
1 SW IN
2 GNDA
3 C IN
4 GNDA
5 SR IN
6 GNDA
7 SL IN
8 GNDA
9 SBR IN
10 GNDA
11 SBL IN
12 GNDA
13 FVL
14 GNDA
15 FVR
H CN5455
(C)
(SW)
(S)
(SB)
(FVL)
L6207 STBY
R6286 0
FOR SEPARATOR
R6299 0
6201
VEF1040
GNDAA

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS352.
*Parts or parts block marked by "STBY" are standby.

10.2 V-AUDIO ASSY

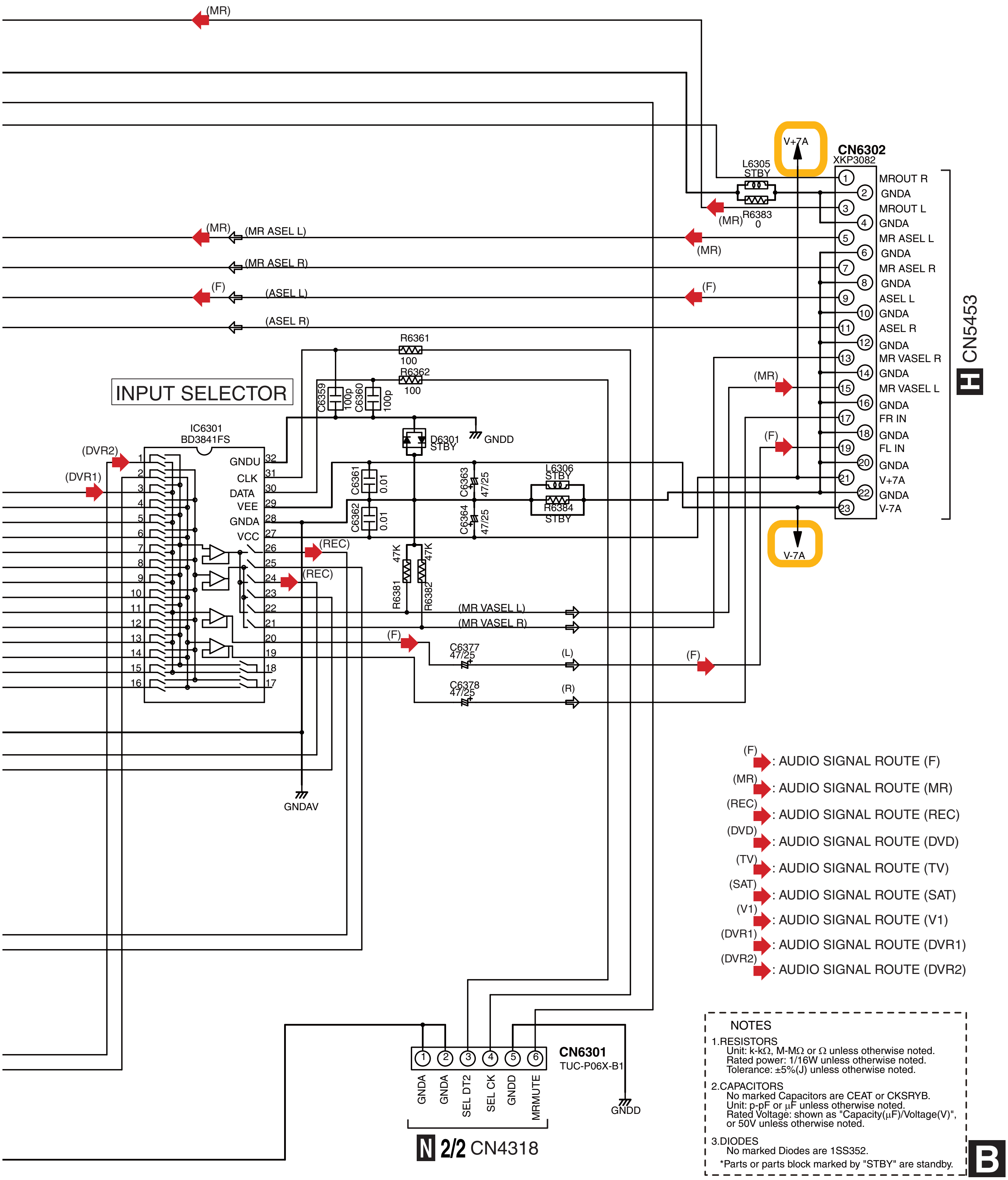
B V-AUDIO ASSY (AWX8931)



JA6301
MR OUT
(1/3)
L
R
(MR)
R6351
1K
Q6301 (1/2)
IMX25
E
B
C
C2
B2
E2
IMX25
Q6301 (2/2)
C6353
C6354
C6355
C6356
STBY
R6353
10k
R6354
10k
R6355
1K
R6356
1K
R6352
1K
C6368
0.01
GNDCH
C6369
0.01
GNDA
NoAssign2
JA6301
(2/3)
DVD/LD
(DVD)
R6303
330
C6301
C6302
R6301
47k
R6302
47k
C6303
C6304
R6304
330
*1
(CHASSIS)
GNDCH
C6349
0.1
C6379
470p
NoAssign1
JA6301 BD
(3/3)
(TV)
R6309
330
C6307
C6308
R6307
47k
R6308
47k
C6309
C6310
R6310
330
AKB7174
CN6307 (1/2)
TV/SAT
(SAT)
R6315
330
C6313
C6314
R6313
47k
R6314
47k
C6315
C6316
R6316
330
C6350
0.1
C6380
470p
GNDCH
(CHASSIS)
CN6307
(2/2)
VIDEO/GAME1
(V1)
R6321
330
C6319
C6320
R6319
47k
R6320
47k
C6321
C6322
R6322
330
AKB7172
(V1)
(SAT)
(TV)
(DVD)
CN6308
(1/2)
DVR/VCR1 OUT
(REC)
L6301
STBY
R6327
2.2k
C6329
10/50
C6325
C6326
R6325
100k
R6326
100k
C6327
C6328
R6329
150K
R6330
150K
R6328
2.2k
C6330
10/50
C6351
0.1
STBY
L6302
GNDCH
(CHASSIS)
C6381
470p
DVR/VCR1 IN
CN6308
(2/2)
(DVR1)
R6333
330
C6331
C6332
R6331
47k
R6332
47k
C6333
C6334
R6334
330
CN6309
(1/2)
DVR/VCR2 OUT
L6303
STBY
R6339
2.2k
C6341
10/50
C6337
C6338
R6337
100k
R6338
100k
C6339
C6340
R6341
150k
R6342
150k
R6340
2.2k
C6342
10/50
STBY
L6304
GNDCH
(CHASSIS)
(at C6352)
DVR/VCR2 IN
CN6309
(2/2)
(DVR2)
(at C6382)
R6345
330
C6343
C6344
R6343
47k
R6344
47k
C6345
C6346
R6346
330
1
2
3
4
5
6
7

*1

		AWX8931
	C6353-C6354	CCSRCH331J50
C6301-C6304 C6213-C6316 C6325-C6326 C6337-C6338	C6307-C6310 C6319-C6322 C6331-C6334 C6343-C6346	CCSRCH101J50
C6327-C6328	C6339-C6340	CCSRCH220J50


(MR)
(MR ASEL L)
(MR ASEL R)
(F)
(ASEL L)
(ASEL R)
INPUT SELECTOR
IC6301
BD3841FS
(DVR2)
(DVR1)
GNDU
CLK
DATA
VEE
GNDA
VCC
(REC)
R6361
100
R6362
100
C6359
100p
C6360
100p
D6301
STBY
GNDD
C6361
0.01
C6362
0.01
C6363
47/25
C6364
47/25
L6306
STBY
R6384
STBY
47K
R6381
R6382
(MR VASEL L)
(MR VASEL R)
C6377
47/25
C6378
47/25
(L)
(R)
GNDAV
V+7A
V-7A
L6305
STBY
R6383
0
CN6302
XKP3082
1 MROUT R
2 GNDA
3 MROUT L
4 GNDA
5 MR ASEL L
6 GNDA
7 MR ASEL R
8 GNDA
9 ASEL L
10 GNDA
11 ASEL R
12 GNDA
13 MR VASEL R
14 GNDA
15 MR VASEL L
16 GNDA
17 FR IN
18 GNDA
19 FL IN
20 GNDA
21 V+7A
22 GNDA
23 V-7A
H CN5453
CN6301
TUC-P06X-B1
1 GNDA
2 GNDA
3 SEL DT2
4 SEL CK
5 GNDD
6 MRMUTE
GNDD
N 2/2 CN4318

(F) : AUDIO SIGNAL ROUTE (F)
(MR) : AUDIO SIGNAL ROUTE (MR)
(REC) : AUDIO SIGNAL ROUTE (REC)
(DVD) : AUDIO SIGNAL ROUTE (DVD)
(TV) : AUDIO SIGNAL ROUTE (TV)
(SAT) : AUDIO SIGNAL ROUTE (SAT)
(V1) : AUDIO SIGNAL ROUTE (V1)
(DVR1) : AUDIO SIGNAL ROUTE (DVR1)
(DVR2) : AUDIO SIGNAL ROUTE (DVR2)

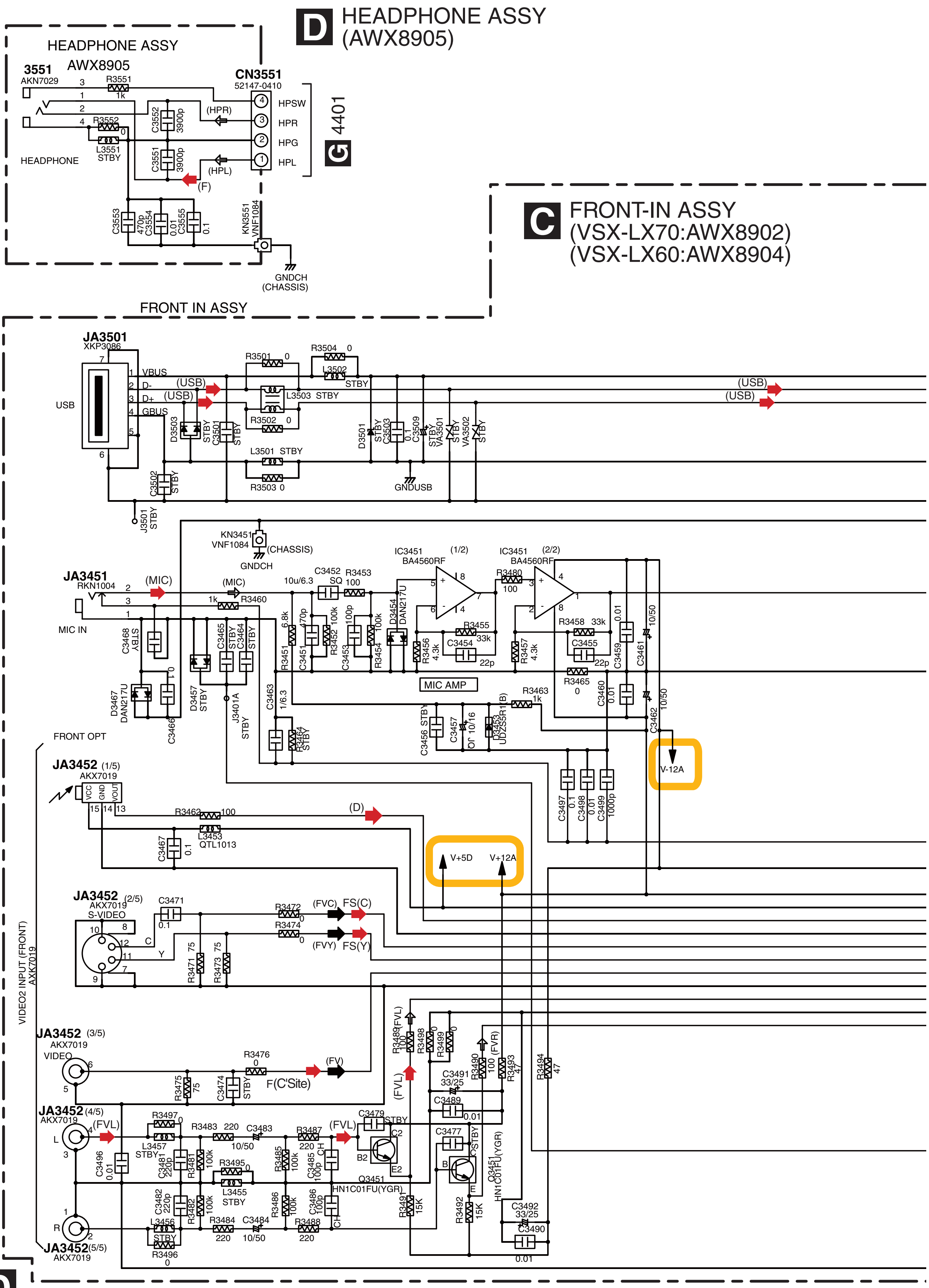
NOTES

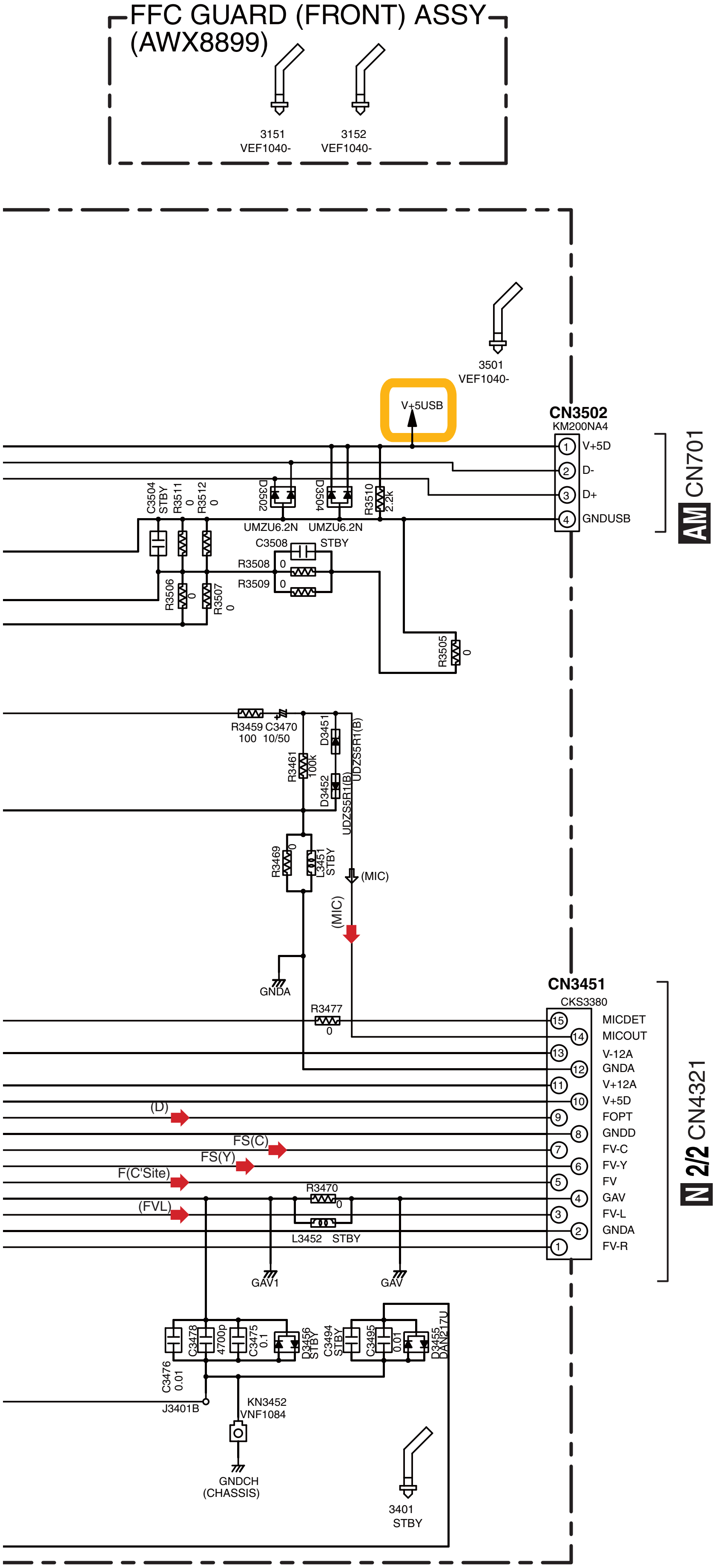
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.
*Parts or parts block marked by "STBY" are standby.

10.3 FRONT-IN and HEADPHONE ASSYS


D HEADPHONE ASSY
(AWX8905)
HEADPHONE ASSY
AWX8905
3551
AKN7029
R3551
1k
R3552
0
L3551
STBY
HEADPHONE
C3552
3900p
C3551
3900p
(HPR)
(HPL)
(F)
CN3551
52147-0410
HPSW
HPR
HPG
HPL
G 4401
C3553
470p
C3554
0.01
C3555
0.1
KN3551
VNF1084
GNDCH
(CHASSIS)
C FRONT-IN ASSY
(VSX-LX70:AWX8902)
(VSX-LX60:AWX8904)
FRONT IN ASSY
JA3501
XKP3086
USB
VBUS
D-
D+
GBUS
(USB)
R3501 0
R3504 0
L3502
STBY
L3503 STBY
R3502 0
L3501 STBY
R3503 0
D3503
C3501
C3502
C3503
0.1
C3509
VA3501
VA3502
D3501
GNDUSB
J3501
STBY
KN3451
VNF1084
(CHASSIS)
GNDCH
JA3451
RKN1004
MIC IN
(MIC)
1k
R3460
C3452
10u/6.3
SQ
R3453
100
IC3451 (1/2)
BA4560RF
IC3451 (2/2)
BA4560RF
R3480
100
R3451
6.8k
C3451
470p
R3452
100k
C3453
100p
R3454
100k
D3454
DAN217U
R3456
4.3k
C3454
22p
R3455
33k
R3457
4.3k
R3458 33k
C3455
22p
C3459
0.01
C3461
10/50
R3465
0
C3460
0.01
C3462
10/50
MIC AMP
R3463
1k
C3456 STBY
C3457
10/16 or
D3453
UDZS5R1(B)
C3463
1/6.3
R3464
STBY
C3468
STBY
D3467
DAN217U
C3466
0.1
D3457
STBY
C3465
STBY
C3464
STBY
J3401A
STBY
V-12A
FRONT OPT
JA3452 (1/5)
AKX7019
VCC
GND
VOUT
R3462
100
L3453
QTL1013
C3467
0.1
(D)
V+5D
V+12A
JA3452 (2/5)
AKX7019
S-VIDEO
C3471
0.1
C
Y
R3471
75
R3473
75
R3472
0
R3474
0
(FVC)
FS(C)
(FVY)
FS(Y)
VIDEO2 INPUT (FRONT)
AKX7019
JA3452 (3/5)
AKX7019
VIDEO
R3476
0
R3475
75
C3474
STBY
(FV)
F(C'Site)
JA3452 (4/5)
AKX7019
(FVL)
L
R3497
0
L3457
STBY
C3496
0.01
C3481
220p
R3481
100k
R3483 220
C3483
10/50
R3495
0
L3455
STBY
R3485
100k
C3485
100p CH
R3487
220
C3479
STBY
C2
B2
E2
Q3451
HN1C01FU(YGR)
C3477
STBY
B
E
Q3451
HN1C01FU(YGR)
R3489
100
(FVL)
R3498
0
R3499
0
R3490
100
(FVR)
R3493
47
R3494
47
C3491
33/25
C3489
0.01
R3491
15K
R3492
15K
C3492
33/25
C3490
0.01
C3482
220p
R3482
100k
R3484
220
C3484
10/50
R3486
100k
C3486
100p CH
R3488
220
L3456
STBY
R3496
0
R
JA3452(5/5)
AKX7019
C3497
0.1
C3498
0.01
C3499
1000p


FFC GUARD (FRONT) ASSY
(AWX8899)
3151
VEF1040-
3152
VEF1040-
3501
VEF1040-
V+5USB
CN3502
KM200NA4
1 V+5D
2 D-
3 D+
4 GNDUSB
AM CN701
C3504
STBY
R3511
0
R3512
0
D3502
D3504
R3510
2.2k
UMZU6.2N
UMZU6.2N
C3508
STBY
R3508
0
R3509
0
R3506
0
R3507
0
R3505
0
R3459
100
C3470
10/50
D3451
UDZS5R1(B)
R3461
100k
D3452
UDZS5R1(B)
R3469
0
L3451
STBY
(MIC)
(MIC)
GNDA
R3477
0
CN3451
CKS3380
15 MICDET
14 MICOUT
13 V-12A
12 GNDA
11 V+12A
10 V+5D
9 FOPT
8 GNDD
7 FV-C
6 FV-Y
5 FV
4 GAV
3 FV-L
2 GNDA
1 FV-R
N 2/2 CN4321
(D)
FS(C)
FS(Y)
F(C'Site)
(FVL)
R3470
0
L3452 STBY
GAV1
GAV
C3476
0.01
C3478
4700p
C3475
0.1
D3456
STBY
C3494
STBY
C3495
0.01
D3455
DAN217U
J3401B
KN3452
VNF1084
GNDCH
(CHASSIS)
3401
STBY

FS(Y) ➡ : VIDEO SIGNAL ROUTE FS(Y)
FS(C) ➡ : VIDEO SIGNAL ROUTE FS(C)
F(C'Site) ➡ : VIDEO SIGNAL ROUTE F(C'Site)
(FVL) ➡ : VIDEO SIGNAL ROUTE (VIDEO 2)
(F) ➡ : AUDIO SIGNAL ROUTE (F)
(MIC) ➡ : AUDIO SIGNAL ROUTE (MIC)
(D) ➡ : AUDIO SIGNAL ROUTE (SPDIF)
(USB) ➡ : AUDIO SIGNAL ROUTE (USB)

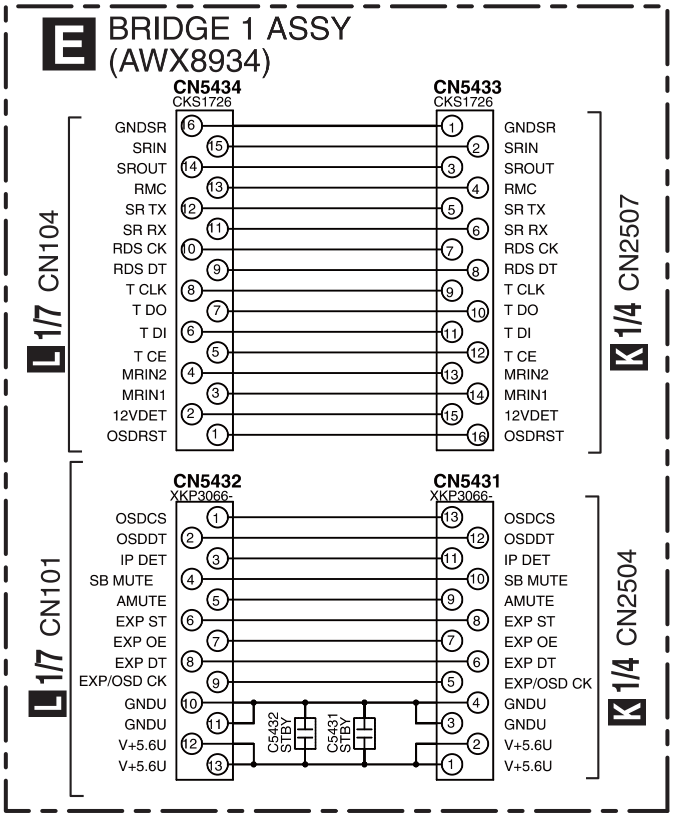
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

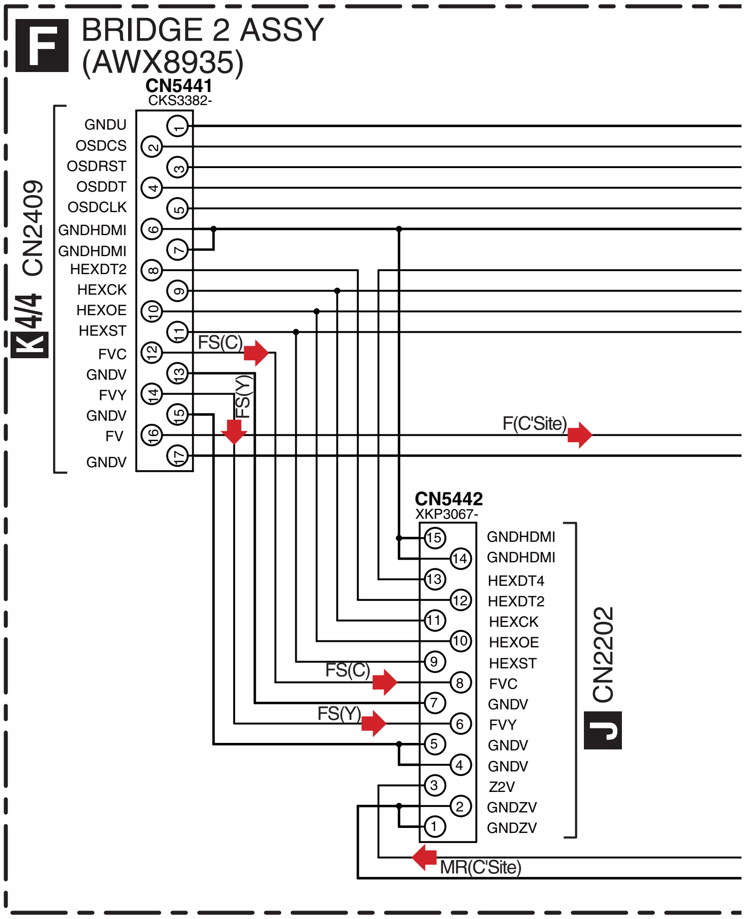
NOTE

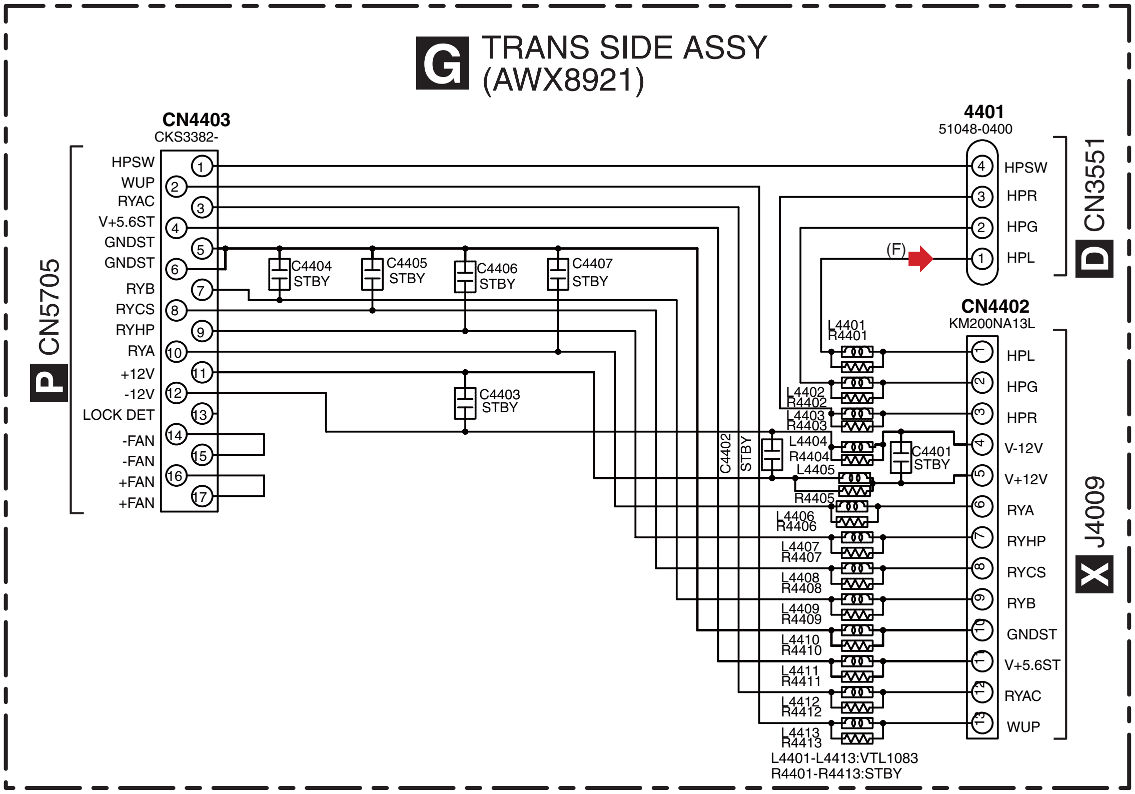
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

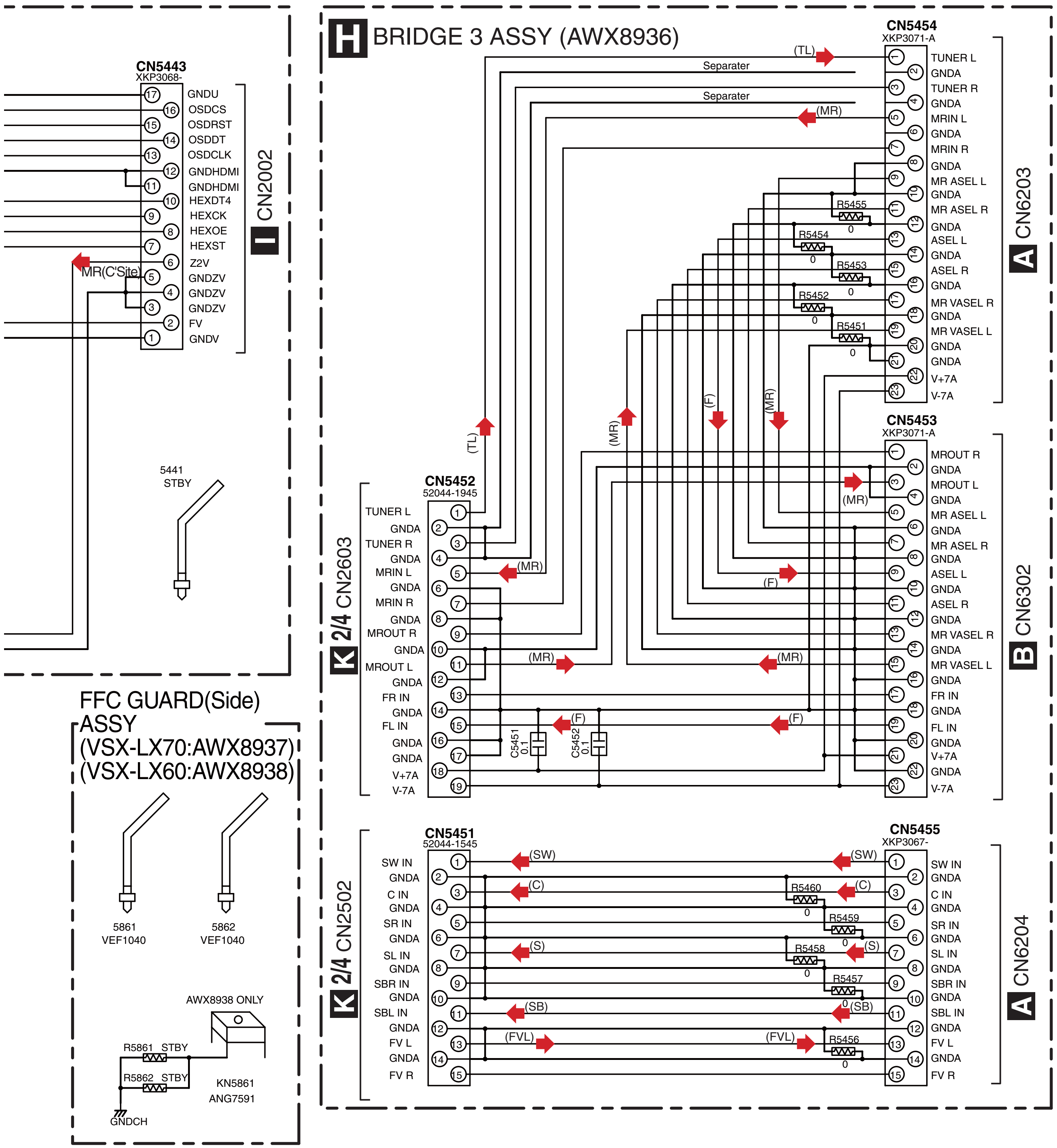
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
JQ:CEJQ

10.4 BRIDGE1, BRIDGE2, TRANS SIDE and BRIDGE3 ASSYS


E BRIDGE 1 ASSY
(AWX8934)
CN5434
CKS1726
CN5433
CKS1726
L 1/7 CN104
K 1/4 CN2507
GNDSR
SRIN
SROUT
RMC
SR TX
SR RX
RDS CK
RDS DT
T CLK
T DO
T DI
T CE
MRIN2
MRIN1
12VDET
OSDRST
CN5432
XKP3066-
CN5431
XKP3066-
L 1/7 CN101
K 1/4 CN2504
OSDCS
OSDDT
IP DET
SB MUTE
AMUTE
EXP ST
EXP OE
EXP DT
EXP/OSD CK
GNDU
GNDU
V+5.6U
V+5.6U
C5432
STBY
C5431
STBY


F BRIDGE 2 ASSY
(AWX8935)
CN5441
CKS3382-
K 4/4 CN2409
GNDU
OSDCS
OSDRST
OSDDT
OSDCLK
GNDHDMI
GNDHDMI
HEXDT2
HEXCK
HEXOE
HEXST
FVC
GNDV
FVY
GNDV
FV
GNDV
FS(C)
FS(Y)
F(C'Site)
CN5442
XKP3067-
J CN2202
GNDHDMI
GNDHDMI
HEXDT4
HEXDT2
HEXCK
HEXOE
HEXST
FVC
GNDV
FVY
GNDV
GNDV
Z2V
GNDZV
GNDZV
FS(C)
FS(Y)
MR(C'Site)


G TRANS SIDE ASSY
(AWX8921)
CN4403
CKS3382-
P CN5705
HPSW
WUP
RYAC
V+5.6ST
GNDST
GNDST
RYB
RYCS
RYHP
RYA
+12V
-12V
LOCK DET
-FAN
-FAN
+FAN
+FAN
C4404
STBY
C4405
STBY
C4406
STBY
C4407
STBY
C4403
STBY
C4402
STBY
C4401
STBY
4401
51048-0400
D CN3551
HPSW
HPR
HPG
HPL
(F)
CN4402
KM200NA13L
X J4009
HPL
HPG
HPR
V-12V
V+12V
RYA
RYHP
RYCS
RYB
GNDST
V+5.6ST
RYAC
WUP
L4401 R4401
L4402 R4402
L4403 R4403
L4404 R4404
L4405 R4405
L4406 R4406
L4407 R4407
L4408 R4408
L4409 R4409
L4410 R4410
L4411 R4411
L4412 R4412
L4413 R4413
L4401-L4413:VTL1083
R4401-R4413:STBY

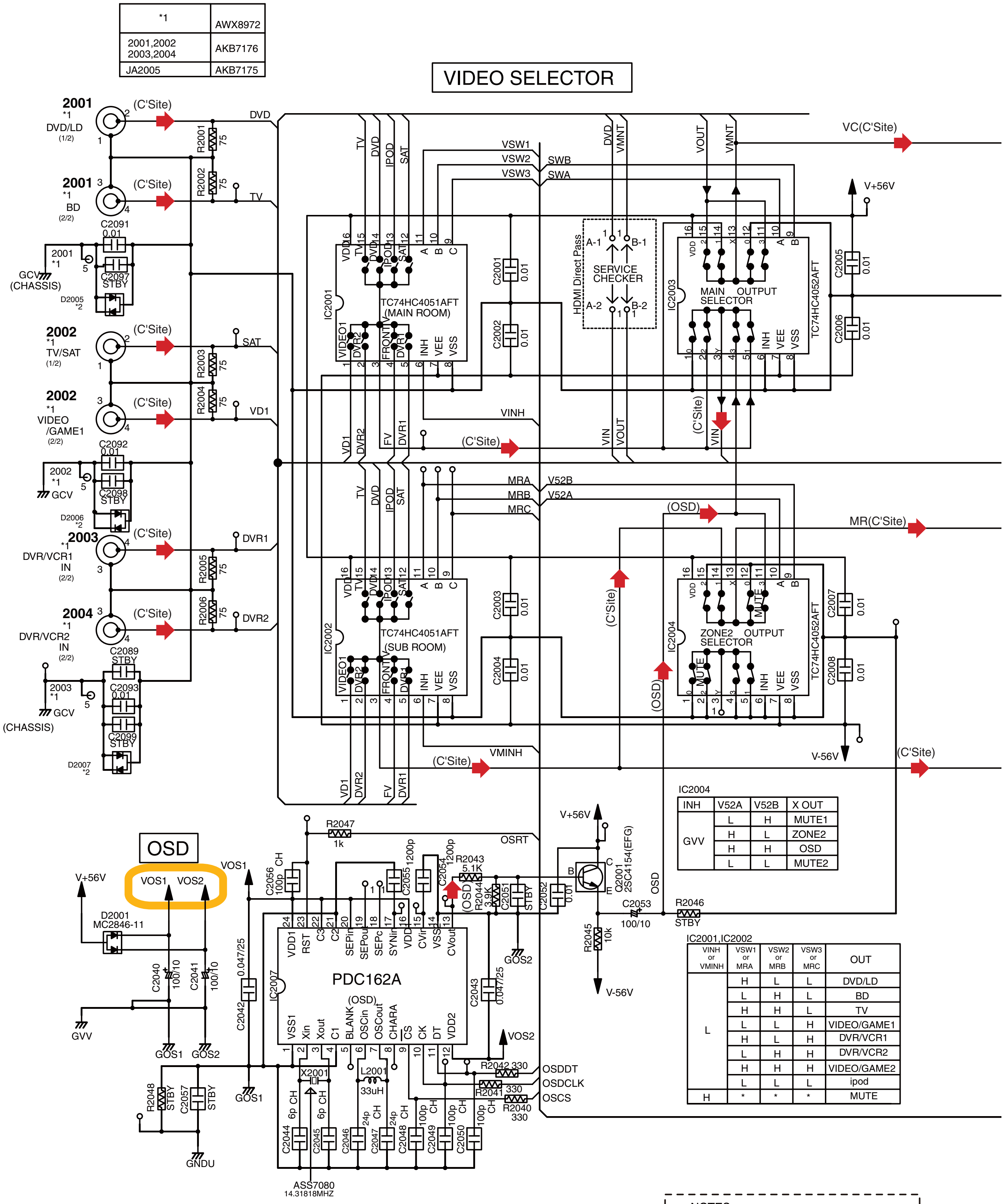

H BRIDGE 3 ASSY (AWX8936)
CN5454
XKP3071-A
TUNER L
GNDA
TUNER R
GNDA
MRIN L
GNDA
MRIN R
GNDA
MR ASEL L
GNDA
MR ASEL R
GNDA
ASEL L
GNDA
ASEL R
GNDA
MR VASEL R
GNDA
MR VASEL L
GNDA
GNDA
V+7A
V-7A
A CN6203
Separater
Separater
(TL)
(MR)
(F)
R5455
R5454
R5453
R5452
R5451
0
CN5443
XKP3068-
GNDU
OSDCS
OSDRST
OSDDT
OSDCLK
GNDHDMI
GNDHDMI
HEXDT4
HEXCK
HEXOE
HEXST
Z2V
GNDZV
GNDZV
GNDZV
FV
GNDV
I CN2002
MR(C'Site)
5441
STBY
CN5452
52044-1945
TUNER L
GNDA
TUNER R
GNDA
MRIN L
GNDA
MRIN R
GNDA
MROUT R
GNDA
MROUT L
GNDA
FR IN
GNDA
FL IN
GNDA
GNDA
V+7A
V-7A
K 2/4 CN2603
C5451
0.1
C5452
0.1
CN5453
XKP3071-A
MROUT R
GNDA
MROUT L
GNDA
MR ASEL L
GNDA
MR ASEL R
GNDA
ASEL L
GNDA
ASEL R
GNDA
MR VASEL R
GNDA
MR VASEL L
GNDA
FR IN
GNDA
FL IN
GNDA
V+7A
GNDA
V-7A
B CN6302
FFC GUARD(Side) ASSY (VSX-LX70:AWX8937) (VSX-LX60:AWX8938)
5861
VEF1040
5862
VEF1040
AWX8938 ONLY
R5861 STBY
R5862 STBY
KN5861
ANG7591
GNDCH
CN5451
52044-1545
SW IN
GNDA
C IN
GNDA
SR IN
GNDA
SL IN
GNDA
SBR IN
GNDA
SBL IN
GNDA
FV L
GNDA
FV R
K 2/4 CN2502
CN5455
XKP3067-
SW IN
GNDA
C IN
GNDA
SR IN
GNDA
SL IN
GNDA
SBR IN
GNDA
SBL IN
GNDA
FV L
GNDA
FV R
A CN6204
(SW)
(C)
(S)
(SB)
(FVL)
R5460
R5459
R5458
R5457
R5456
0

MR(C'Site) 🡆 : VIDEO SIGNAL ROUTE MR(C'Site)
F(C'Site) 🡆 : VIDEO SIGNAL ROUTE F(C'Site)
FS(C) 🡆 : VIDEO SIGNAL ROUTE FS(C)
FS(Y) 🡆 : VIDEO SIGNAL ROUTE FS(Y)

(F) 🡆 : AUDIO SIGNAL ROUTE(F)
(C) 🡆 : AUDIO SIGNAL ROUTE(C)
(S) 🡆 : AUDIO SIGNAL ROUTE(S)
(SB) 🡆 : AUDIO SIGNAL ROUTE(SB)
(SW) 🡆 : AUDIO SIGNAL ROUTE(SW)
(TL) 🡆 : AUDIO SIGNAL ROUTE(TUNER)
(FVL) 🡆 : AUDIO SIGNAL ROUTE(VIDEO2)
(MR) 🡆 : AUDIO SIGNAL ROUTE(MR)

F H

10.5 COMPOSITE V ASSY


A
B
C
D
E
VIDEO SELECTOR
2001 *1 DVD/LD (1/2)
2001 *1 BD (2/2)
2002 *1 TV/SAT (1/2)
2002 *1 VIDEO /GAME1 (2/2)
2003 *1 DVR/VCR1 IN (2/2)
2004 *1 DVR/VCR2 IN (2/2)
(C'Site)
GCV (CHASSIS)
R2001 75
R2002 75
R2003 75
R2004 75
R2005 75
R2006 75
C2091 0.01
C2097 STBY
C2092 0.01
C2098 STBY
C2089 STBY
C2093 0.01
C2099 STBY
D2005 *2
D2006 *2
D2007 *2
DVD
TV
SAT
VD1
DVR1
DVR2
VSW1
VSW2
VSW3
SWB
SWA
IC2001
TC74HC4051AFT (MAIN ROOM)
IC2002
TC74HC4051AFT (SUB ROOM)
C2001 0.01
C2002 0.01
C2003 0.01
C2004 0.01
VINH
VMINH
MRA
MRB
MRC
V52B
V52A
HDMI Direct Pass
SERVICE CHECKER
A-1
B-1
A-2
B-2
IC2003
MAIN OUTPUT SELECTOR
TC74HC4052AFT
IC2004
ZONE2 OUTPUT SELECTOR
C2005 0.01
C2006 0.01
C2007 0.01
C2008 0.01
VC(C'Site)
MR(C'Site)
V+56V
V-56V
(OSD)
VIN
VOUT
VMNT
OSD
VOS1
VOS2
V+56V
D2001 MC2846-11
C2040 100/10
C2041 100/10
GVV
GOS1
GOS2
R2048 STBY
C2057 STBY
GNDU
R2047 1k
OSRT
C2056 100p CH
C2055 1200p
C2054 1200p
R2043 5.1K
R2044 3.9K
C2051 STBY
C2052 0.01
Q2001 2SC1544(EFG)
C2053 100/10
R2046 STBY
R2045 10k
C2042 0.047/25
IC2007
PDC162A (OSD)
C2043 0.047/25
GOS2
X2001
L2001 33uH
ASS7080 14.31818MHZ
C2044 6p CH
C2045 6p CH
C2046 24p CH
C2047 24p CH
C2048 100p CH
C2049 100p CH
C2050 100p CH
R2042 330
R2041 330
R2040 330
OSDDT
OSDCLK
OSCS

*1	AWX8972
2001,2002 2003,2004	AKB7176
JA2005	AKB7175

IC2004

INH	V52A	V52B	X OUT
GVV	L	H	MUTE1
	H	L	ZONE2
	H	H	OSD
	L	L	MUTE2

IC2001,IC2002

VINH or VMINH	VSW1 or MRA	VSW2 or MRB	VSW3 or MRC	OUT
L	H	L	L	DVD/LD
	L	H	L	BD
	H	H	L	TV
	L	L	H	VIDEO/GAME1
	H	L	H	DVR/VCR1
	L	H	H	DVR/VCR2
	H	H	H	VIDEO/GAME2
	L	L	L	ipod
H	*	*	*	MUTE

NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

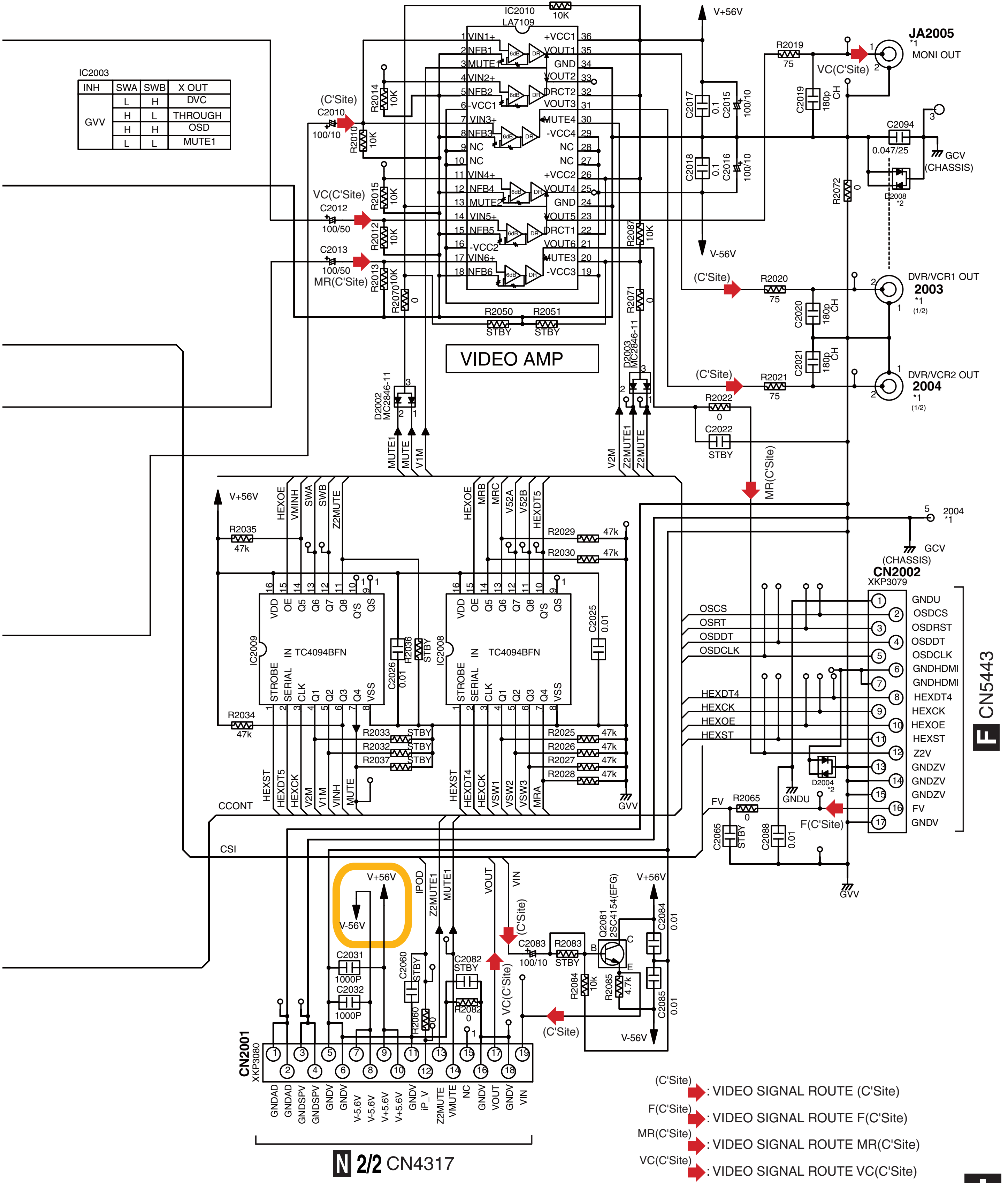
*Parts or parts block marked by "STBY" are standby.

I COMPOSITE V ASSY (AWX8972)

*2	AWX8972
D2004-D2008	DAN217U

IC2003

INH	SWA	SWB	X OUT
GVV	L	H	DVC
	H	L	THROUGH
	H	H	OSD
	L	L	MUTE1


IC2010
LA7109
R2086
10K
VIDEO AMP
1 VIN1+
2 NFB1
3 MUTE1
4 VIN2+
5 NFB2
6 -VCC1
7 VIN3+
8 NFB3
9 NC
10 NC
11 VIN4+
12 NFB4
13 MUTE2
14 VIN5+
15 NFB5
16 -VCC2
17 VIN6+
18 NFB6
+VCC1 36
VOUT1 35
GND 34
VOUT2 33
DRCT2 32
VOUT3 31
MUTE4 30
-VCC4 29
NC 28
NC 27
+VCC2 26
VOUT4 25
GND 24
VOUT5 23
DRCT1 22
VOUT6 21
MUTE3 20
-VCC3 19
6dB
DR
R2014 10K
R2010 10K
R2015 10K
R2012 10K
R2013 10K
R2070 0
(C'Site)
C2010
100/10
VC(C'Site)
C2012
100/50
C2013
100/50
MR(C'Site)
R2050 STBY
R2051 STBY
D2002
MC2846-11
MUTE1
MUTE
V1M
V+56V
V-56V
C2017 0.1
C2015 100/10
C2018 0.1
C2016 100/10
R2087 10K
R2071 0
D2003
MC2846-11
V2M
Z2MUTE1
Z2MUTE
R2019 75
VC(C'Site)
C2019 180p CH
JA2005
*1
MONI OUT
C2094
0.047/25
GCV
(CHASSIS)
R2072 0
D2008 *2
(C'Site)
R2020 75
C2020 180p CH
DVR/VCR1 OUT
2003
*1 (1/2)
C2021 180p CH
(C'Site)
R2021 75
R2022 0
C2022 STBY
DVR/VCR2 OUT
2004
*1 (1/2)
MR(C'Site)
2004 *1
GCV
(CHASSIS)
CN2002
XKP3079
GNDU
OSDCS
OSDRST
OSDDT
OSDCLK
GNDHDMI
GNDHDMI
HEXDT4
HEXCK
HEXOE
HEXST
Z2V
GNDZV
GNDZV
GNDZV
FV
GNDV
F CN5443
OSCS
OSRT
OSDDT
OSDCLK
HEXDT4
HEXCK
HEXOE
HEXST
D2004 *2
GNDU
FV
R2065 0
F(C'Site)
C2065 STBY
C2088 0.01
GVV
V+56V
R2035 47k
HEXOE
VMINH
SWA
SWB
Z2MUTE
IC2009
TC4094BFN
VDD OE Q5 Q6 Q7 Q8 Q'S QS
STROBE SERIAL CLK Q1 Q2 Q3 Q4 VSS
IN
C2026 0.01
R2036 STBY
R2034 47k
R2033 STBY
R2032 STBY
R2037 STBY
HEXST
HEXDT5
HEXCK
V2M
V1M
VINH
MUTE
CCONT
HEXOE
MRB
MRC
V52A
V52B
HEXDT5
R2029 47k
R2030 47k
IC2008
TC4094BFN
C2025 0.01
R2025 47k
R2026 47k
R2027 47k
R2028 47k
HEXST
HEXDT4
HEXCK
VSW1
VSW2
VSW3
MRA
GVV
CSI
V+56V
V-56V
C2031 1000P
C2032 1000P
C2060 STBY
R2060 0
IPOD
Z2MUTE1
MUTE1
C2082 STBY
R2082 0
VOUT
VIN
(C'Site)
VC(C'Site)
C2083 100/10
R2083 STBY
Q2081
2SC4154(EFG)
B C E
R2084 10k
R2085 4.7k
V+56V
C2084 0.01
C2085 0.01
V-56V
(C'Site)
CN2001
XKP3080
GNDAD
GNDAD
GNDSPV
GNDSPV
GNDV
GNDV
V-5.6V
V-5.6V
V+5.6V
V+5.6V
GNDV
iP_V
Z2MUTE
VMUTE
NC
GNDV
VOUT
GNDV
VIN
N 2/2 CN4317

(C'Site) ➡ : VIDEO SIGNAL ROUTE (C'Site)

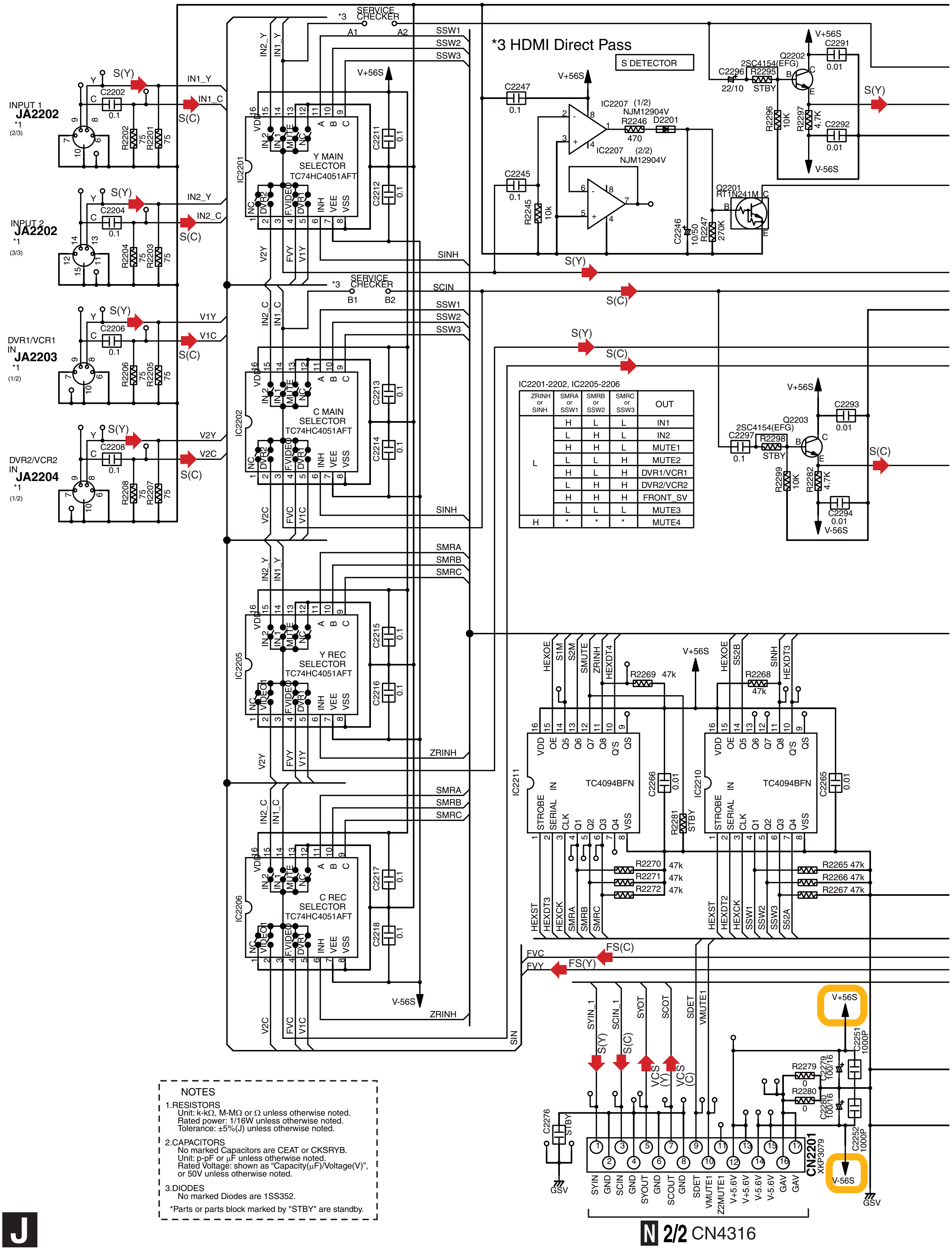
F(C'Site) ➡ : VIDEO SIGNAL ROUTE F(C'Site)

MR(C'Site) ➡ : VIDEO SIGNAL ROUTE MR(C'Site)

VC(C'Site) ➡ : VIDEO SIGNAL ROUTE VC(C'Site)

(OSD) ➡ : VIDEO SIGNAL ROUTE (OSD)

10.6 S-VIDEO ASSY


A
B
C
D
E
F
INPUT 1
JA2202
*1
(2/3)
INPUT 2
JA2202
*1
(3/3)
DVR1/VCR1 IN
JA2203
*1
(1/2)
DVR2/VCR2 IN
JA2204
*1
(1/2)
S(Y)
S(C)
IN1_Y
IN1_C
IN2_Y
IN2_C
V1Y
V1C
V2Y
V2C
C2202 0.1
C2204 0.1
C2206 0.1
C2208 0.1
R2201 75
R2202 75
R2203 75
R2204 75
R2205 75
R2206 75
R2207 75
R2208 75
*3 SERVICE CHECKER
A1
A2
B1
B2
SSW1
SSW2
SSW3
SINH
SCIN
SMRA
SMRB
SMRC
ZRINH
V+56S
V-56S
IC2201
Y MAIN SELECTOR TC74HC4051AFT
IC2202
C MAIN SELECTOR TC74HC4051AFT
IC2205
Y REC SELECTOR TC74HC4051AFT
IC2206
C REC SELECTOR TC74HC4051AFT
VDD
IN2
IN1
MUTE
NC
A
B
C
DVR2
F.VIDEO
DVR1
VIDEO1
INH
VEE
VSS
C2211 0.1
C2212 0.1
C2213 0.1
C2214 0.1
C2215 0.1
C2216 0.1
C2217 0.1
C2218 0.1
FVY
FVC
*3 HDMI Direct Pass
S DETECTOR
C2247 0.1
C2245 0.1
IC2207 (1/2) NJM12904V
IC2207 (2/2) NJM12904V
R2246 470
D2201
R2245 10k
C2246 10/50
R2247 270K
Q2201 RT1N241M
Q2202 2SC4154(EFG)
C2296 22/10
R2295 STBY
R2296 10K
R2297 4.7K
C2291 0.01
C2292 0.01
Q2203 2SC4154(EFG)
C2297 0.1
R2298 STBY
R2299 10K
R2282 4.7K
C2293 0.01
C2294 0.01
IC2211
IC2210
TC4094BFN
OE
Q5
Q6
Q7
Q8
Q'S
QS
STROBE
SERIAL IN
CLK
Q1
Q2
Q3
Q4
C2266 0.01
C2265 0.01
HEXOE
S1M
S2M
SMUTE
ZRINH
HEXDT4
S52B
SINH
HEXDT3
R2269 47k
R2268 47k
R2281 STBY
R2270 47k
R2271 47k
R2272 47k
R2265 47k
R2266 47k
R2267 47k
HEXST
HEXDT3
HEXCK
HEXDT2
S52A
FS(C)
FS(Y)
SIN
SYIN_1
SCIN_1
SYOT
SCOT
SDET
VMUTE1
VCS (Y)
VCS (C)
C2276 STBY
GSV
R2279 0
R2280 0
C2279 100/16
C2280 100/16
C2251 1000P
C2252 1000P
CN2201
XKP3079
SYIN
GND
SCIN
SYOUT
SCOUT
Z2MUTE1
V+5.6V
V-5.6V
GAV
N 2/2 CN4316

IC2201-2202, IC2205-2206

ZRINH or SINH	SMRA or SSW1	SMRB or SSW2	SMRC or SSW3	OUT
L	H	L	L	IN1
	L	H	L	IN2
	H	H	L	MUTE1
	L	L	H	MUTE2
	H	L	H	DVR1/VCR1
	L	H	H	DVR2/VCR2
	H	H	H	FRONT_SV
	L	L	L	MUTE3
H	*	*	*	MUTE4

NOTES

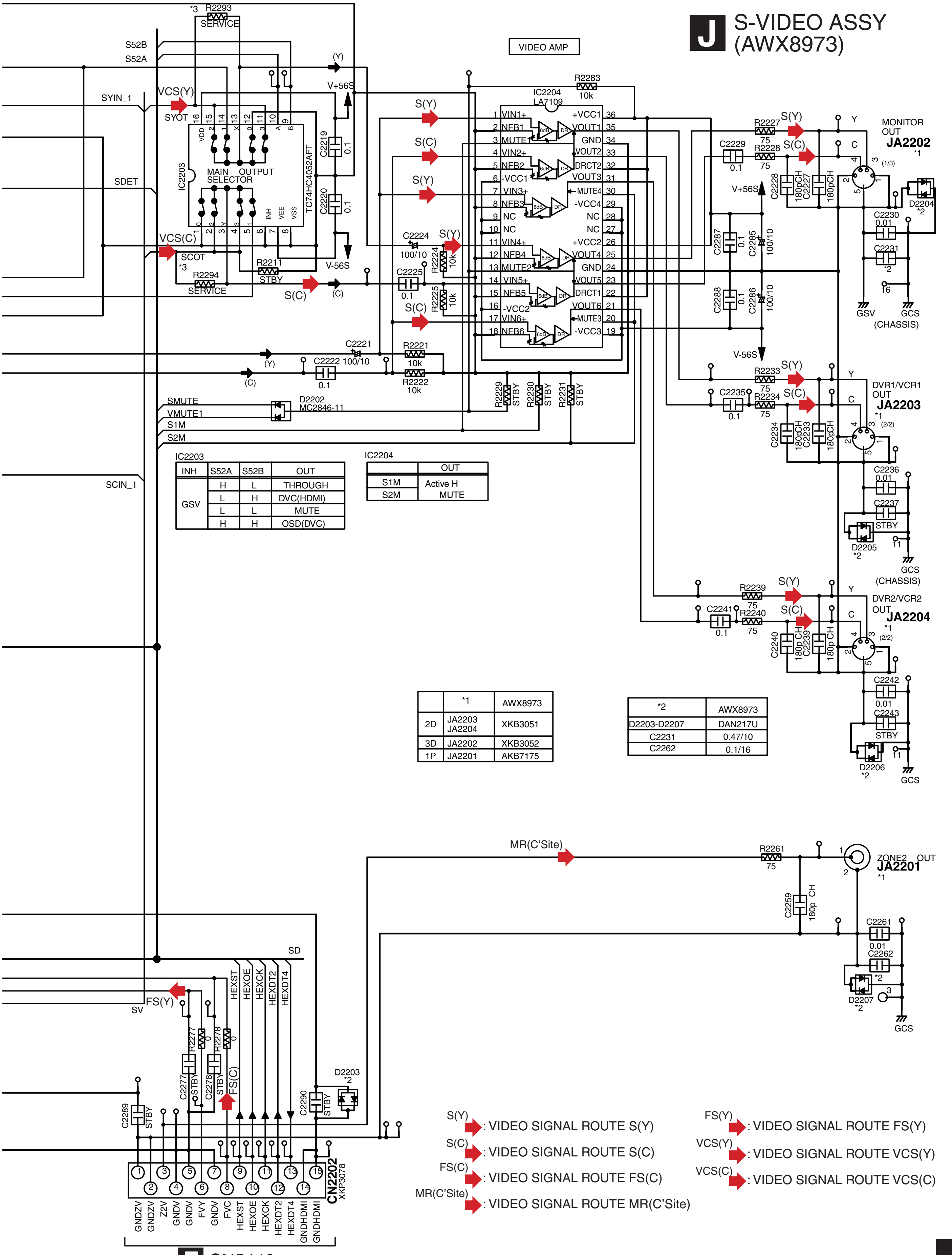
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as “Capacity(μF)/Voltage(V)”, or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

*Parts or parts block marked by "STBY" are standby.

J S-VIDEO ASSY
(AWX8973)


VIDEO AMP
*3 R2293 SERVICE
S52B
S52A
SYIN_1
VCS(Y)
SYOT
V+56S
(Y)
SDET
IC2203
MAIN OUTPUT SELECTOR
TC74HC4052AFT
VDD
INH
VEE
VSS
C2219 0.1
C2220 0.1
VCS(C)
SCOT
*3 R2294 SERVICE
R2211 STBY
V-56S
S(C)
(C)
IC2204 LA7109
R2283 10k
1 VIN1+
2 NFB1
3 MUTE1
4 VIN2+
5 NFB2
6 -VCC1
7 VIN3+
8 NFB3
9 NC
10 NC
11 VIN4+
12 NFB4
13 MUTE2
14 VIN5+
15 NFB5
16 -VCC2
17 VIN6+
18 NFB6
36 +VCC1
35 VOUT1
34 GND
33 VOUT2
32 DRCT2
31 VOUT3
30 MUTE4
29 -VCC4
28 NC
27 NC
26 +VCC2
25 VOUT4
24 GND
23 VOUT5
22 DRCT1
21 VOUT6
20 MUTE3
19 -VCC3
6dB
DR
S(Y)
S(C)
C2224 100/10
C2225 0.1
R2224 10k
R2225 10k
C2221
C2222 100/10
0.1
R2221 10k
R2222 10k
SMUTE
VMUTE1
S1M
S2M
D2202 MC2846-11
R2229 STBY
R2230 STBY
R2231 STBY
SCIN_1
MONITOR OUT
JA2202 *1
(1/3)
Y
C
R2227 75
R2228 75
C2229 0.1
C2228
C2227 180pCH
180pCH
D2204 *2
C2230 0.01
C2231 *2
16
GSV
GCS
(CHASSIS)
V+56S
C2287 0.1
C2285 100/10
C2288 0.1
C2286 100/10
V-56S
DVR1/VCR1 OUT
JA2203 *1 (2/2)
R2233 75
R2234 75
C2235 0.1
C2234 180pCH
C2233 180pCH
C2236 0.01
C2237 STBY
D2205 *2
11
GCS (CHASSIS)
DVR2/VCR2 OUT
JA2204 *1 (2/2)
R2239 75
R2240 75
C2241 0.1
C2240 180p CH
C2239 180pCH
C2242 0.01
C2243 STBY
D2206 *2
11
GCS
MR(C'Site)
R2261 75
C2259 180p CH
ZONE2 OUT
JA2201 *1
C2261 0.01
C2262 *2
D2207 *2
3
GCS
SD
SV
FS(Y)
FS(C)
R2277 0
R2278 0
C2277 STBY
C2278 STBY
C2289 STBY
C2290 STBY
D2203 *2
HEXST
HEXOE
HEXCK
HEXDT2
HEXDT4
CN2202 XKP3078
GNDZV
GNDZV
Z2V
GNDV
GNDV
FVY
GNDV
FVC
HEXST
HEXOE
HEXCK
HEXDT2
HEXDT4
GNDHDMI
GNDHDMI
F CN5442

IC2203

INH	S52A	S52B	OUT
GSV	H	L	THROUGH
	L	H	DVC(HDMI)
	L	L	MUTE
	H	H	OSD(DVC)

IC2204

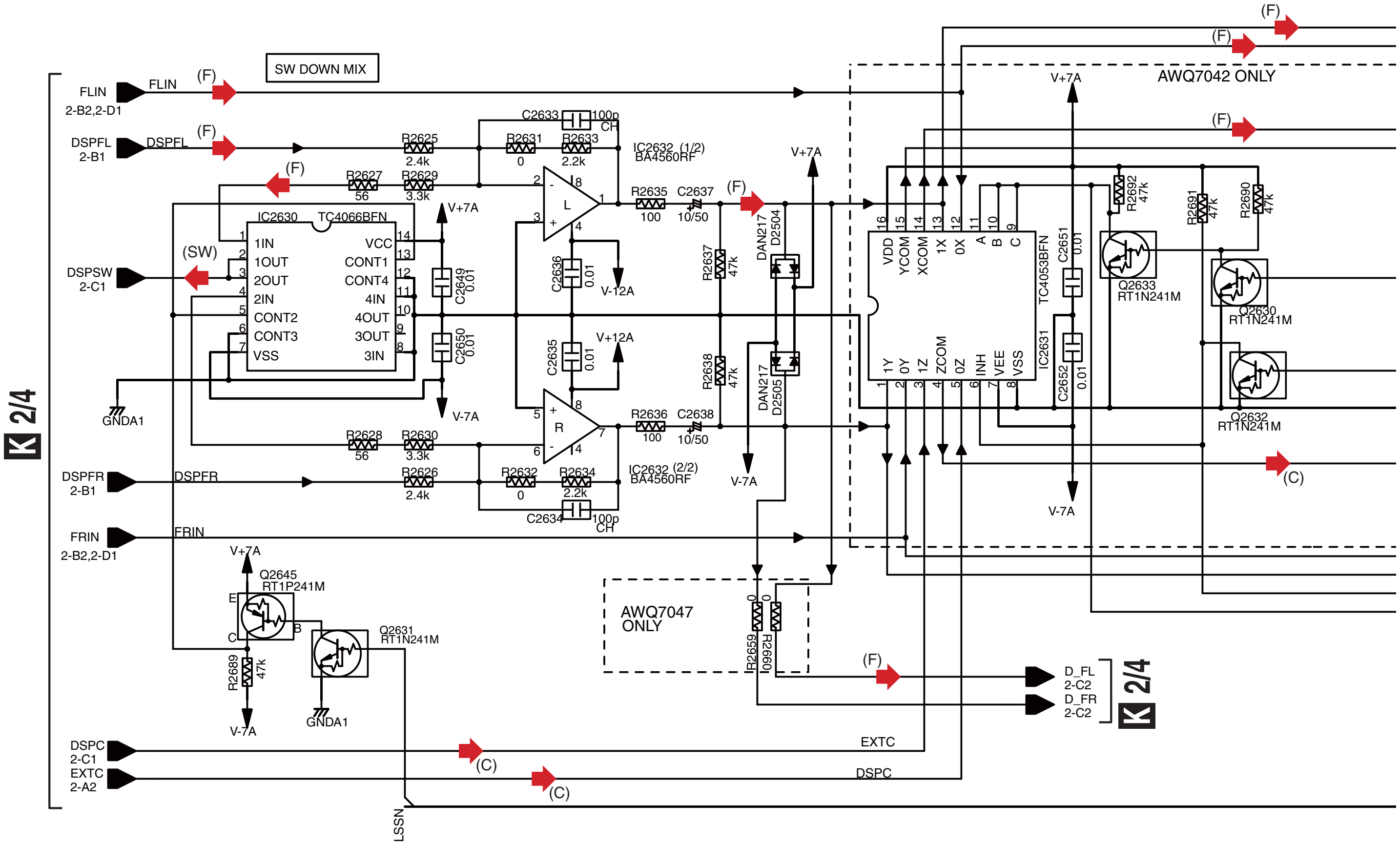
	OUT
S1M	Active H
S2M	MUTE

	*1	AWX8973
2D	JA2203 JA2204	XKB3051
3D	JA2202	XKB3052
1P	JA2201	AKB7175

*2	AWX8973
D2203-D2207	DAN217U
C2231	0.47/10
C2262	0.1/16

S(Y): VIDEO SIGNAL ROUTE S(Y)
S(C): VIDEO SIGNAL ROUTE S(C)
FS(C): VIDEO SIGNAL ROUTE FS(C)
MR(C'Site): VIDEO SIGNAL ROUTE MR(C'Site)
FS(Y): VIDEO SIGNAL ROUTE FS(Y)
VCS(Y): VIDEO SIGNAL ROUTE VCS(Y)
VCS(C): VIDEO SIGNAL ROUTE VCS(C)

10.7 COMPONENT & VOL ASSY (1/4)



FLIN 2-B2,2-D1
DSPFL 2-B1
DSPSW 2-C1
DSPFR 2-B1
FRIN 2-B2,2-D1
DSPC 2-C1
EXTC 2-A2
K 2/4
SW DOWN MIX
(F)
(SW)
(C)
IC2630 TC4066BFN
1IN VCC 1OUT CONT1 2OUT CONT4 2IN 4IN CONT2 4OUT CONT3 3OUT VSS 3IN
GNDA1
C2649 0.01
C2650 0.01
V+7A
V-7A
R2625 2.4k
R2627 56
R2629 3.3k
R2631 0
R2633 2.2k
C2633 100p CH
IC2632 (1/2) BA4560RF
C2636 0.01
V-12A
C2635 0.01
V+12A
R2628 56
R2630 3.3k
R2626 2.4k
R2632 0
R2634 2.2k
C2634 100p CH
IC2632 (2/2) BA4560RF
R2635 100
C2637 10/50
R2636 100
C2638 10/50
R2637 47k
R2638 47k
DAN217 D2504
DAN217 D2505
AWQ7042 ONLY
TC4053BFN
VDD YCOM XCOM 1X 0X A B C
1Y 0Y 1Z ZCOM 0Z INH VEE VSS
IC2631
C2651 0.01
C2652 0.01
R2692 47k
R2691 47k
R2690 47k
Q2633 RT1N241M
Q2630 RT1N241M
Q2632 RT1N241M
Q2645 RT1P241M
Q2631 RT1N241M
R2689 47k
AWQ7047 ONLY
R2659 0
R2660 0
D_FL 2-C2
D_FR 2-C2
EXTC
DSPC
LSSN

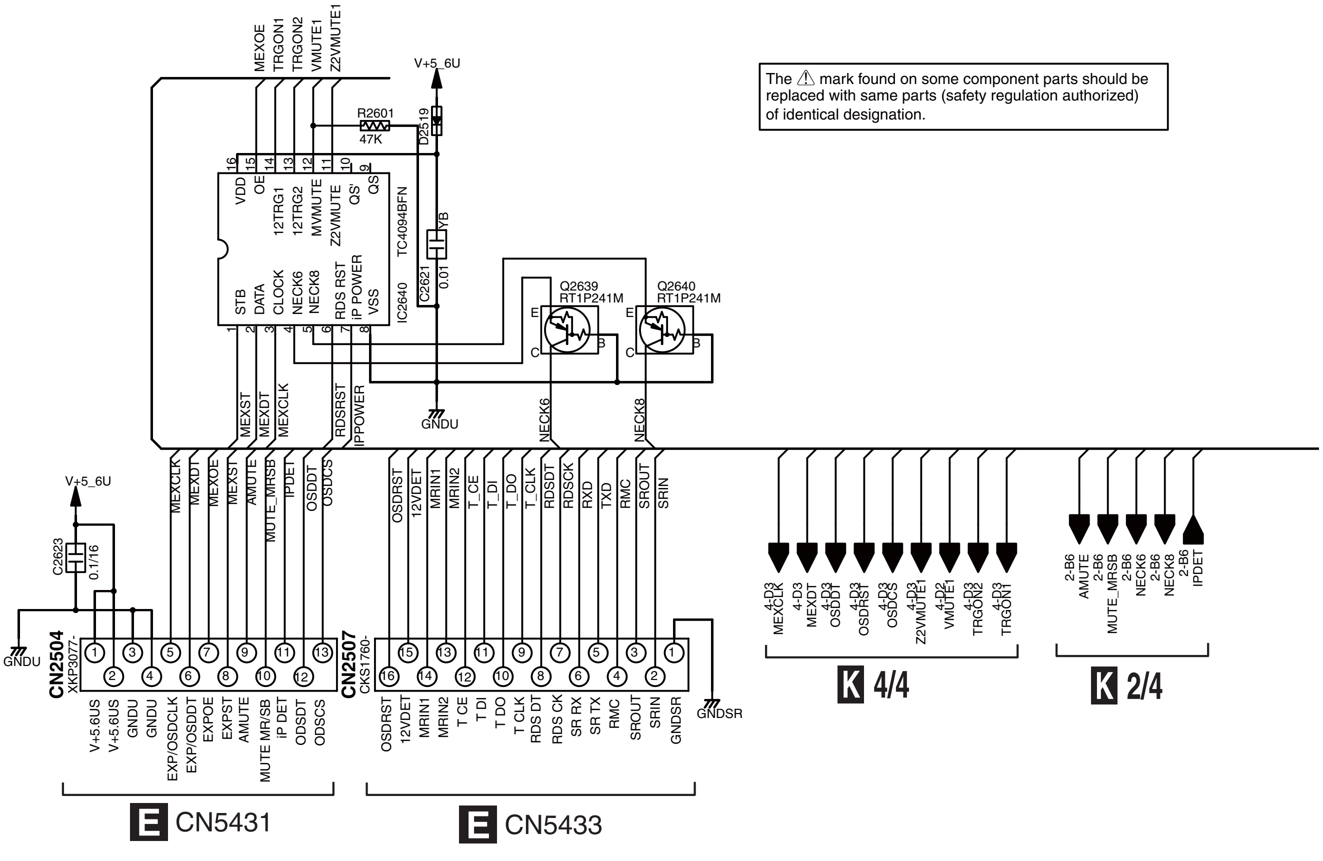
SW DOWN MIX SELECT

XLSSN	L	H
IC2630[CONT]	H	L
SW DOWNMIX	ON	OFF

CENTER DOWN MIX SELECT

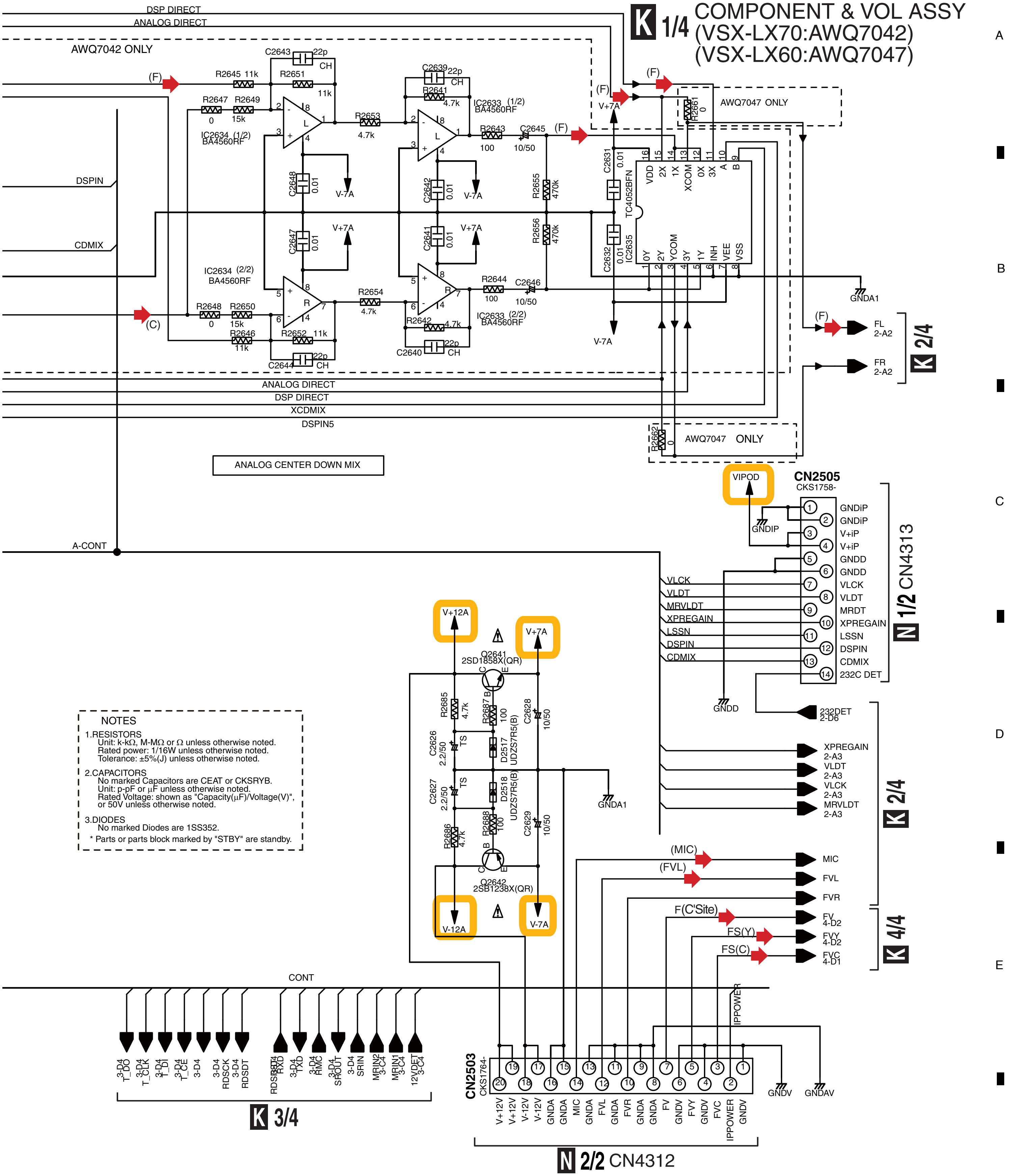
CDMIX	DSPIN	IC2631				IC2635		SELECT
		A	B	C	INH	A	B	
L	H	H	H	H	H	H	H	DSP Direct
L	L	L	L	L	H	L	H	Analog Direct
H	H	H	H	H	L	H	L	DSP Downmix
H	L	L	L	L	L	L	L	Analog Downmix

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.



MEXOE TRGON1 TRGON2 VMUTE1 Z2VMUTE1
V+5_6U
R2601 47K
D2519
IC2640 TC4094BFN
VDD OE 12TRG1 12TRG2 MVMUTE Z2VMUTE QS' QS
STB DATA CLOCK NECK6 NECK8 RDS RST iP POWER VSS
C2621 0.01 YB
GNDU
Q2639 RT1P241M
Q2640 RT1P241M
MEXST MEXDT MEXCLK RDSRST IPPOWER NECK6 NECK8
MEXCLK MEXDT MEXOE MEXST AMUTE MUTE_MRSB IPDET OSDDT OSDCS
OSDRST 12VDET MRIN1 MRIN2 T_CE T_DI T_DO T_CLK RDSDT RDSCK RXD TXD RMC SROUT SRIN
4-D3 MEXCLK
4-D3 MEXDT
4-D3 OSDDT
4-D3 OSDRST
4-D3 OSDCS
4-D2 Z2VMUTE1
4-D3 VMUTE1
4-D3 TRGON2
4-D3 TRGON1
2-B6 AMUTE
2-B6 MUTE_MRSB
2-B6 NECK6
2-B6 NECK8
2-B6 IPDET
C2623 0.1/16
CN2504 XKP3077-
V+5.6US V+5.6US GNDU GNDU EXP/OSDCLK EXP/OSDDT EXPOE EXPST AMUTE MUTE MR/SB iP DET ODSDT ODSCS
CN2507 CKS1760-
OSDRST 12VDET MRIN1 MRIN2 T CE T DI T DO T CLK RDS DT RDS CK SR RX SR TX RMC SROUT SRIN GNDSR
GNDSR
K 4/4
K 2/4
E CN5431
E CN5433
K 1/4

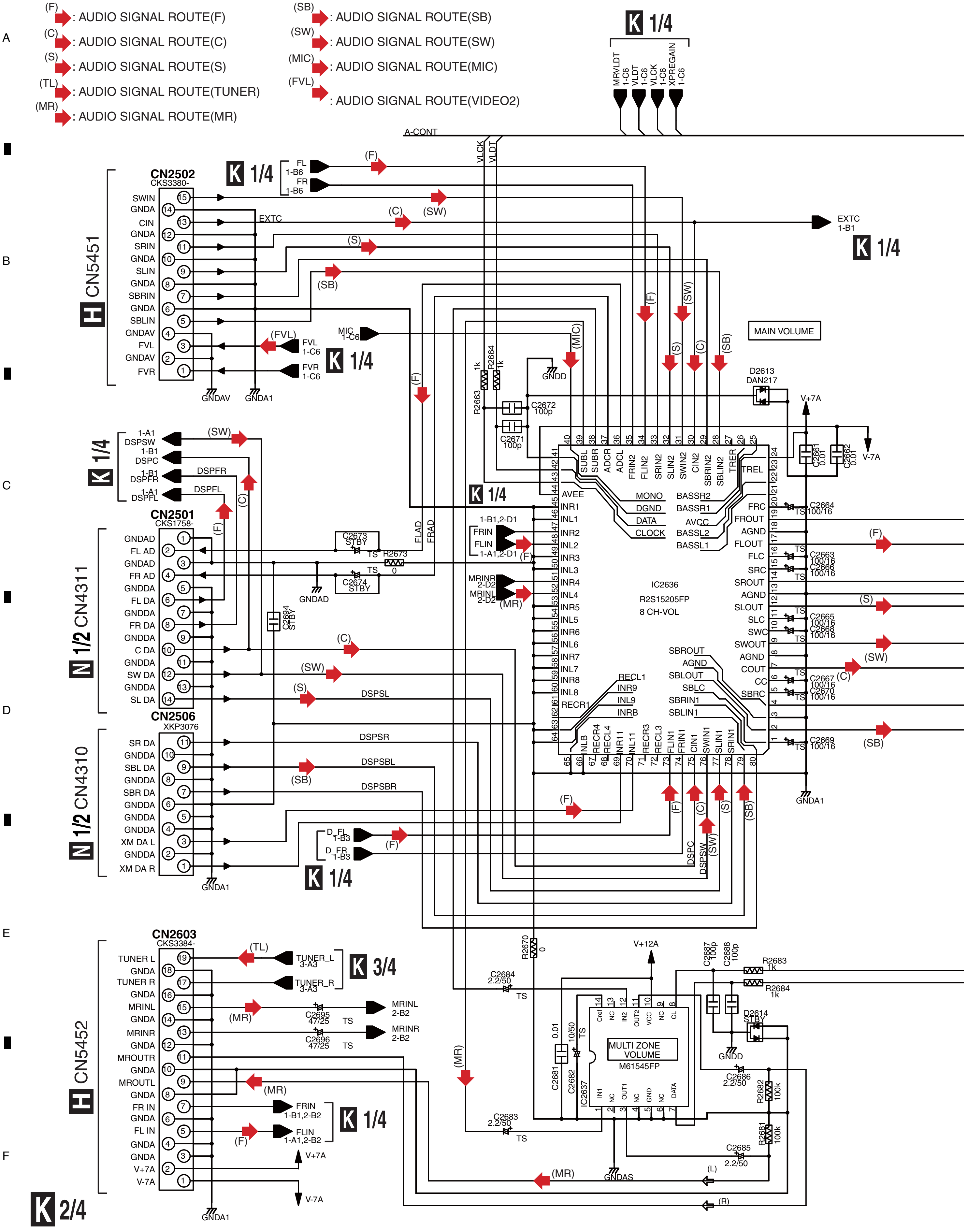
K 1/4 COMPONENT & VOL ASSY
(VSX-LX70:AWQ7042)
(VSX-LX60:AWQ7047)


A
B
C
D
E
DSP DIRECT
ANALOG DIRECT
AWQ7042 ONLY
(F)
R2645 11k
R2651
11k
C2643 22p CH
R2647 0
R2649 15k
IC2634 (1/2) BA4560RF
L
R2653 4.7k
C2639 22p CH
R2641 4.7k
IC2633 (1/2) BA4560RF
R2643 100
C2645 10/50
(F)
V+7A
R2661 0
AWQ7047 ONLY
DSPIN
CDMIX
C2648 0.01
V-7A
C2642 0.01
V-7A
C2647 0.01
V+7A
C2641 0.01
V+7A
R2655 470k
R2656 470k
C2631 0.01
C2632 0.01
IC2635 TC4052BFN
VDD 2X 1X XCOM 0X 3X A B
0Y 2Y YCOM 3Y 1Y INH VEE VSS
GNDA1
IC2634 (2/2) BA4560RF
R
R2648 0
R2650 15k
R2646 11k
R2652 11k
C2644 22p CH
(C)
R2654 4.7k
R2642 4.7k
C2640 22p CH
R2644 100
C2646 10/50
IC2633 (2/2) BA4560RF
V-7A
(F)
FL 2-A2
FR 2-A2
K 2/4
ANALOG DIRECT
DSP DIRECT
XCDMIX
DSPIN5
R2662 0
AWQ7047 ONLY
ANALOG CENTER DOWN MIX
VIPOD
GNDIP
CN2505 CKS1758-
1 GNDiP
2 GNDiP
3 V+iP
4 V+iP
5 GNDD
6 GNDD
7 VLCK
8 VLDT
9 MRDT
10 XPREGAIN
11 LSSN
12 DSPIN
13 CDMIX
14 232C DET
N 1/2 CN4313
A-CONT
VLCK
VLDT
MRVLDT
XPREGAIN
LSSN
DSPIN
CDMIX
GNDD
232DET 2-D6
V+12A
V+7A
Q2641 2SD1858X(QR)
R2685 4.7k
R2687 100
C2628 10/50
C2626 2.2/50 TS
D2517 UDZS7R5(B)
C2627 2.2/50 TS
D2518 UDZS7R5(B)
GNDA1
R2686 4.7k
R2688 100
C2629 10/50
Q2642 2SB1238X(QR)
V-12A
V-7A
XPREGAIN 2-A3
VLDT 2-A3
VLCK 2-A3
MRVLDT 2-A3
K 2/4
(MIC)
MIC
(FVL)
FVL
FVR
F(C'Site)
FV 4-D2
FS(Y)
FVY 4-D2
FS(C)
FVC 4-D1
K 4/4
CONT
3-D4 T_DO
3-D4 T_CLK
3-D4 T_DI
3-D4 T_CE
3-D4
3-D4 RDSCK
3-D4 RDSDT
RDSRDY4 RXD
3-D4 TXD
3-D4 RMC
3-D4 SROUT
3-D4 SRIN
MRIN2 3-C4
MRIN1 3-C4
12VDET 3-C4
K 3/4
IPPOWER
CN2503 CKS1764-
19 17 15 13 11 9 7 5 3 1
20 18 16 14 12 10 8 6 4 2
V+12V V+12V V-12V V-12V GNDA GNDA MIC GNDA FVL GNDA FVR GNDA GNDA FV GNDV FVY GNDV FVC IPPOWER GNDV
GNDV
GNDAV
N 2/2 CN4312

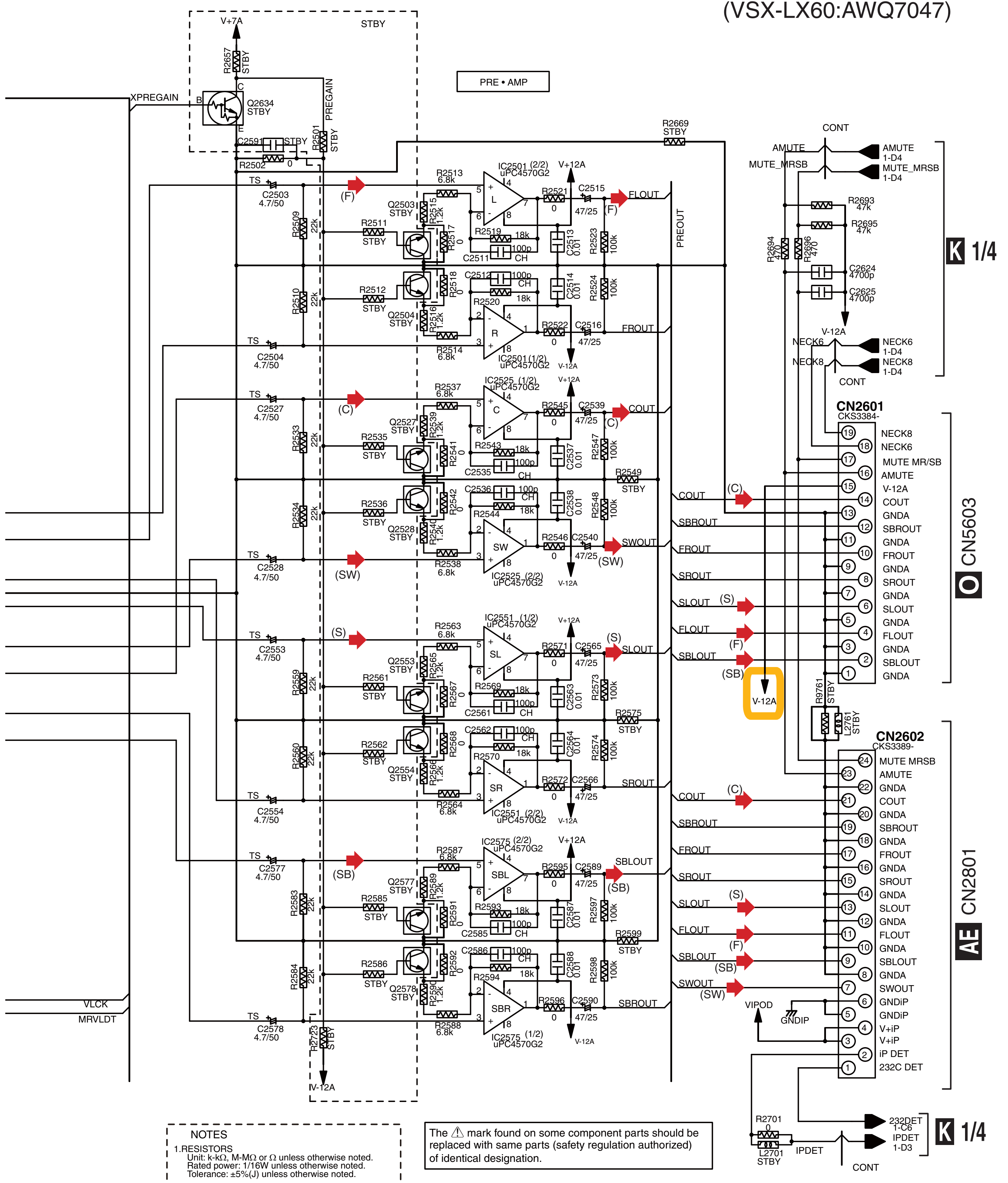
NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS352.
* Parts or parts block marked by "STBY" are standby.

(F) ➡: AUDIO SIGNAL ROUTE(F)
(C) ➡: AUDIO SIGNAL ROUTE(C)
(SW) ➡: AUDIO SIGNAL ROUTE(SW)
(MIC) ➡: AUDIO SIGNAL ROUTE(MIC)
(FVL) ➡: AUDIO SIGNAL ROUTE(VIDEO2)
F(C'Site) ➡: VIDEO SIGNAL ROUTE F(C'Site)
FS(C) ➡: VIDEO SIGNAL ROUTE FS(C)
FS(Y) ➡: VIDEO SIGNAL ROUTE FS(Y)

10.8 COMPONENT & VOL ASSY (2/4)


(F) : AUDIO SIGNAL ROUTE(F)
(C) : AUDIO SIGNAL ROUTE(C)
(S) : AUDIO SIGNAL ROUTE(S)
(TL) : AUDIO SIGNAL ROUTE(TUNER)
(MR) : AUDIO SIGNAL ROUTE(MR)
(SB) : AUDIO SIGNAL ROUTE(SB)
(SW) : AUDIO SIGNAL ROUTE(SW)
(MIC) : AUDIO SIGNAL ROUTE(MIC)
(FVL) : AUDIO SIGNAL ROUTE(VIDEO2)
K 1/4
MRVLDT 1-C6
VLDT 1-C6
VLCK 1-C6
XPREGAIN 1-C6
A-CONT
VLCK
VLDT
H CN5451
CN2502
CKS3380-
SWIN
GNDA
CIN
GNDA
SRIN
GNDA
SLIN
GNDA
SBRIN
GNDA
SBLIN
GNDAV
FVL
GNDAV
FVR
GNDAV
GNDA1
K 1/4
FL 1-B6
FR 1-B6
EXTC
EXTC 1-B1
K 1/4
MIC 1-C6
FVL 1-C6
FVR 1-C6
K 1/4
MAIN VOLUME
D2613
DAN217
V+7A
V-7A
R2663 1k
R2664 1k
C2672 100p
C2671 100p
GNDD
C2661 0.01
C2662 0.01
K 1/4
1-A1 DSPSW
1-B1 DSPC
1-B1 DSPFR
1-A1 DSPFL
DSPFR
DSPFL
N 1/2 CN4311
CN2501
CKS1758-
GNDAD
FL AD
GNDAD
FR AD
GNDDA
FL DA
GNDDA
FR DA
GNDDA
C DA
GNDDA
SW DA
GNDDA
SL DA
C2673 STBY
C2674 STBY
R2673 0
TS
C2694 STBY
GNDAD
FLAD
FRAD
DSPSL
K 1/4
1-B1,2-D1
FRIN
FLIN
1-A1,2-D1
MRINR 2-D2
MRINL 2-D2
IC2636
R2S15205FP
8 CH-VOL
AVEE INR1 INL1 INR2 INL2 INR3 INL3 INR4 INL4 INR5 INL5 INR6 INL6 INR7 INL7 INR8 INL8 RECR1
SUBL SUBR ADCR ADCL FRIN2 FLIN2 SRIN2 SLIN2 SWIN2 CIN2 SBRIN2 SBLIN2 TRER TREL
MONO DGND DATA CLOCK
BASSR2 BASSR1 AVCC BASSL2 BASSL1
FRC FROUT AGND FLOUT FLC SRC SROUT AGND SLOUT SLC SWC SWOUT AGND COUT CC SBRC
SBROUT AGND SBLOUT SBLC SBRIN1 SBLIN1
RECL1 INR9 INL9 INRB
INLB RECR4 RECL4 INR11 INL11 RECR3 RECL3 FLIN1 FRIN1 CIN1 SWIN1 SLIN1 SRIN1
C2664 100/16
C2663 100/16
C2666 100/16
C2665 100/16
C2668 100/16
C2667 100/16
C2670 100/16
C2669 100/16
GNDA1
N 1/2 CN4310
CN2506
XKP3076
SR DA
GNDDA
SBL DA
GNDDA
SBR DA
GNDDA
GNDDA
GNDDA
XM DA L
GNDDA
XM DA R
DSPSR
DSPSBL
DSPSBR
D_FL 1-B3
D_FR 1-B3
K 1/4
DSPC
DSPSW
GNDA1
H CN5452
CN2603
CKS3384-
TUNER L
GNDA
TUNER R
GNDA
MRINL
GNDA
MRINR
GNDA
MROUTR
GNDA
MROUTL
GNDA
FR IN
GNDA
FL IN
GNDA
GNDA
V+7A
V-7A
TUNER_L 3-A3
TUNER_R 3-A3
K 3/4
C2695 47/25
C2696 47/25
MRINL 2-B2
MRINR 2-B2
FRIN 1-B1,2-B2
FLIN 1-A1,2-B2
K 1/4
V+7A
V-7A
GNDA1
R2670 0
V+12A
C2684 2.2/50
C2683 2.2/50
C2687 100p
C2688 100p
R2683 1k
R2684 1k
D2614 STBY
GNDD
C2686 2.2/50
R2682 100k
R2681 100k
C2685 2.2/50
C2681 0.01
C2682 10/50
IC2637
Cref NC IN2 OUT2 VCC NC CL
IN1 NC OUT1 NC GND NC DATA
MULTI ZONE VOLUME
M61545FP
GNDAS
(L)
(R)
K 2/4

K 2/4 COMPONENT & VOL ASSY (VSX-LX70:AWQ7042) (VSX-LX60:AWQ7047)



V+7A
STBY
R2657 STBY
XPREGAIN
Q2634 STBY
PREGAIN
C2591 STBY
R2501 STBY
R2502 0
PRE • AMP
R2669 STBY
CONT
AMUTE
MUTE_MRSB
AMUTE 1-D4
MUTE_MRSB 1-D4
K 1/4
R2693 47k
R2695 47k
R2694 470
R2696 470
C2624 4700p
C2625 4700p
V-12A
NECK6
NECK8
NECK6 1-D4
NECK8 1-D4
IC2501 (2/2) uPC4570G2
IC2501 (1/2) uPC4570G2
V+12A
V-12A
TS
C2503 4.7/50
C2504 4.7/50
(F)
FLOUT
FROUT
PREOUT
R2513 6.8k
R2514 6.8k
R2515 1.2k
R2516 1.2k
R2517 0
R2518 0
R2509 22k
R2510 22k
R2511 STBY
R2512 STBY
Q2503 STBY
Q2504 STBY
R2519 18k
R2520 18k
C2511 100p CH
C2512 100p CH
R2521 0
R2522 0
C2515 47/25
C2516 47/25
C2513 0.01
C2514 0.01
R2523 100k
R2524 100k
L
R
IC2525 (1/2) uPC4570G2
IC2525 (2/2) uPC4570G2
C2527 4.7/50
C2528 4.7/50
(C)
(SW)
COUT
SWOUT
C
SW
R2537 6.8k
R2538 6.8k
R2539 1.2k
R2540 1.2k
R2541 0
R2542 0
R2533 22k
R2534 22k
R2535 STBY
R2536 STBY
Q2527 STBY
Q2528 STBY
R2543 18k
R2544 18k
C2535 100p CH
C2536 100p CH
R2545 0
R2546 0
C2539 47/25
C2540 47/25
C2537 0.01
C2538 0.01
R2547 100k
R2548 100k
R2549 STBY
IC2551 (1/2) uPC4570G2
IC2551 (2/2) uPC4570G2
C2553 4.7/50
C2554 4.7/50
(S)
SLOUT
SROUT
SL
SR
R2563 6.8k
R2564 6.8k
R2565 1.2k
R2566 1.2k
R2567 0
R2568 0
R2559 22k
R2560 22k
R2561 STBY
R2562 STBY
Q2553 STBY
Q2554 STBY
R2569 18k
R2570 18k
C2561 100p CH
C2562 100p CH
R2571 0
R2572 0
C2565 47/25
C2566 47/25
C2563 0.01
C2564 0.01
R2573 100k
R2574 100k
R2575 STBY
IC2575 (2/2) uPC4570G2
IC2575 (1/2) uPC4570G2
C2577 4.7/50
C2578 4.7/50
(SB)
SBLOUT
SBROUT
SBL
SBR
R2587 6.8k
R2588 6.8k
R2589 1.2k
R2590 1.2k
R2591 0
R2592 0
R2583 22k
R2584 22k
R2585 STBY
R2586 STBY
Q2577 STBY
Q2578 STBY
R2593 18k
R2594 18k
C2585 100p CH
C2586 100p CH
R2595 0
R2596 0
C2589 47/25
C2590 47/25
C2587 0.01
C2588 0.01
R2597 100k
R2598 100k
R2599 STBY
R2723 STBY
IV-12A
VLCK
MRVLDT
COUT
SBROUT
FROUT
SROUT
SLOUT
FLOUT
SBLOUT
SWOUT
CN2601
CKS3384-
19 NECK8
18 NECK6
17 MUTE MR/SB
16 AMUTE
15 V-12A
14 COUT
13 GNDA
12 SBROUT
11 GNDA
10 FROUT
9 GNDA
8 SROUT
7 GNDA
6 SLOUT
5 GNDA
4 FLOUT
3 GNDA
2 SBLOUT
1 GNDA
O CN5603
R9761 STBY
L2761 STBY
CN2602
CKS3389-
24 MUTE MRSB
23 AMUTE
22 GNDA
21 COUT
20 GNDA
19 SBROUT
18 GNDA
17 FROUT
16 GNDA
15 SROUT
14 GNDA
13 SLOUT
12 GNDA
11 FLOUT
10 GNDA
9 SBLOUT
8 GNDA
7 SWOUT
6 GNDiP
5 GNDiP
4 V+iP
3 V+iP
2 iP DET
1 232C DET
AE CN2801
VIPOD
GNDIP
R2701 0
L2701 STBY
IPDET
232DET 1-C6
IPDET 1-D3
CONT
K 1/4

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS352.
* Parts or parts block marked by "STBY" are standby.

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

10.9 COMPONENT & VOL ASSY (3/4)

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

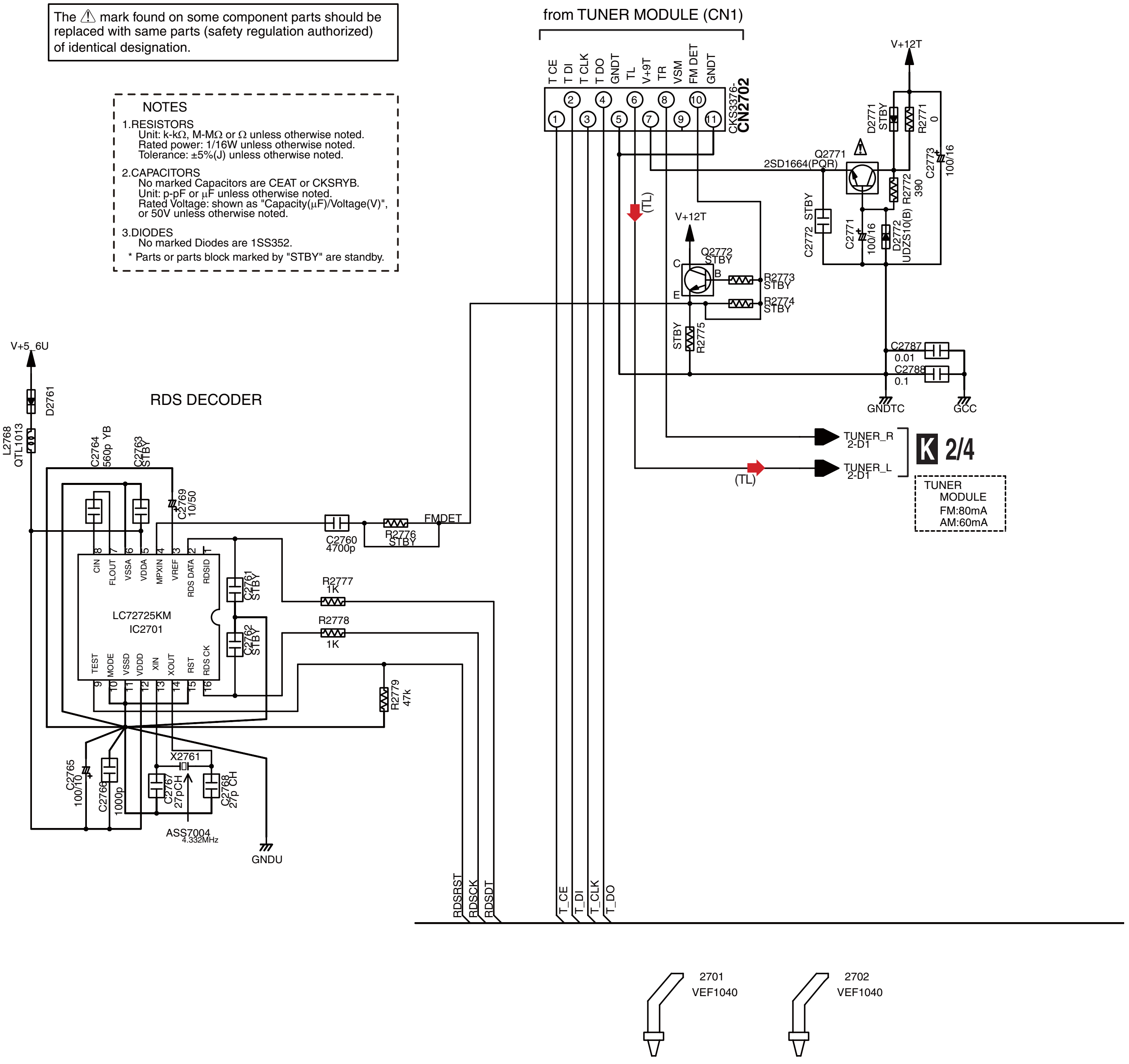
NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

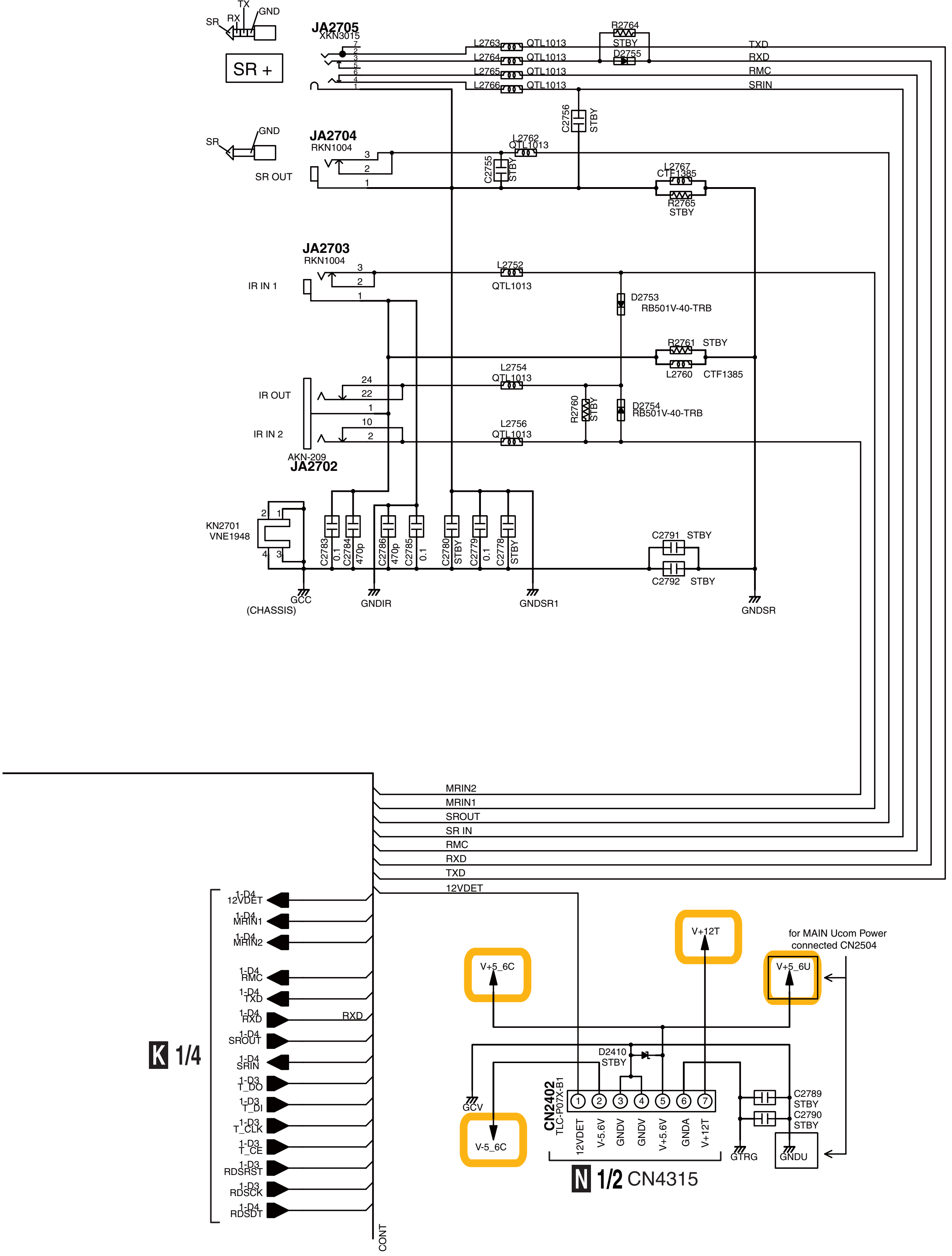
* Parts or parts block marked by "STBY" are standby.



from TUNER MODULE (CN1)
T CE
T DI
T CLK
T DO
GNDT
TL
V+9T
TR
VSM
FM DET
GNDT
CKS3376-
CN2702
V+12T
D2771 STBY
R2771 0
Q2771 ⚠
2SD1664(PQR)
C2773 100/16
R2772 390
C2772 STBY
C2771 100/16
D2772 UDZS10(B)
(TL)
V+12T
Q2772 STBY
C
B
E
R2773 STBY
R2774 STBY
STBY R2775
C2787 0.01
C2788 0.1
GNDTC
GCC
TUNER_R 2-D1
TUNER_L 2-D1
(TL)
K 2/4
TUNER MODULE FM:80mA AM:60mA
V+5_6U
D2761
L2768 QTL1013
RDS DECODER
C2764 560p YB
C2763 STBY
C2769 10/50
C2760 4700p
R2776 STBY
FMDET
CIN
FLOUT
VSSA
VDDA
MPXIN
VREF
RDS DATA
RDSID
LC72725KM
IC2701
TEST
MODE
VSSD
VDDD
XIN
XOUT
RST
RDS CK
C2761 STBY
C2762 STBY
R2777 1K
R2778 1K
R2779 47k
C2765 100/10
C2766 1000p
X2761
C2767 27pCH
C2768 27p CH
ASS7004 4.332MHz
GNDU
RDSRST
RDSCK
RDSDT
T_CE
T_DI
T_CLK
T_DO
2701 VEF1040
2702 VEF1040

(TL) ➡ : AUDIO SIGNAL ROUTE(TUNER)

K 3/4 COMPONENT & VOL ASSY
(VSX-LX70:AWQ7042)
(VSX-LX60:AWQ7047)



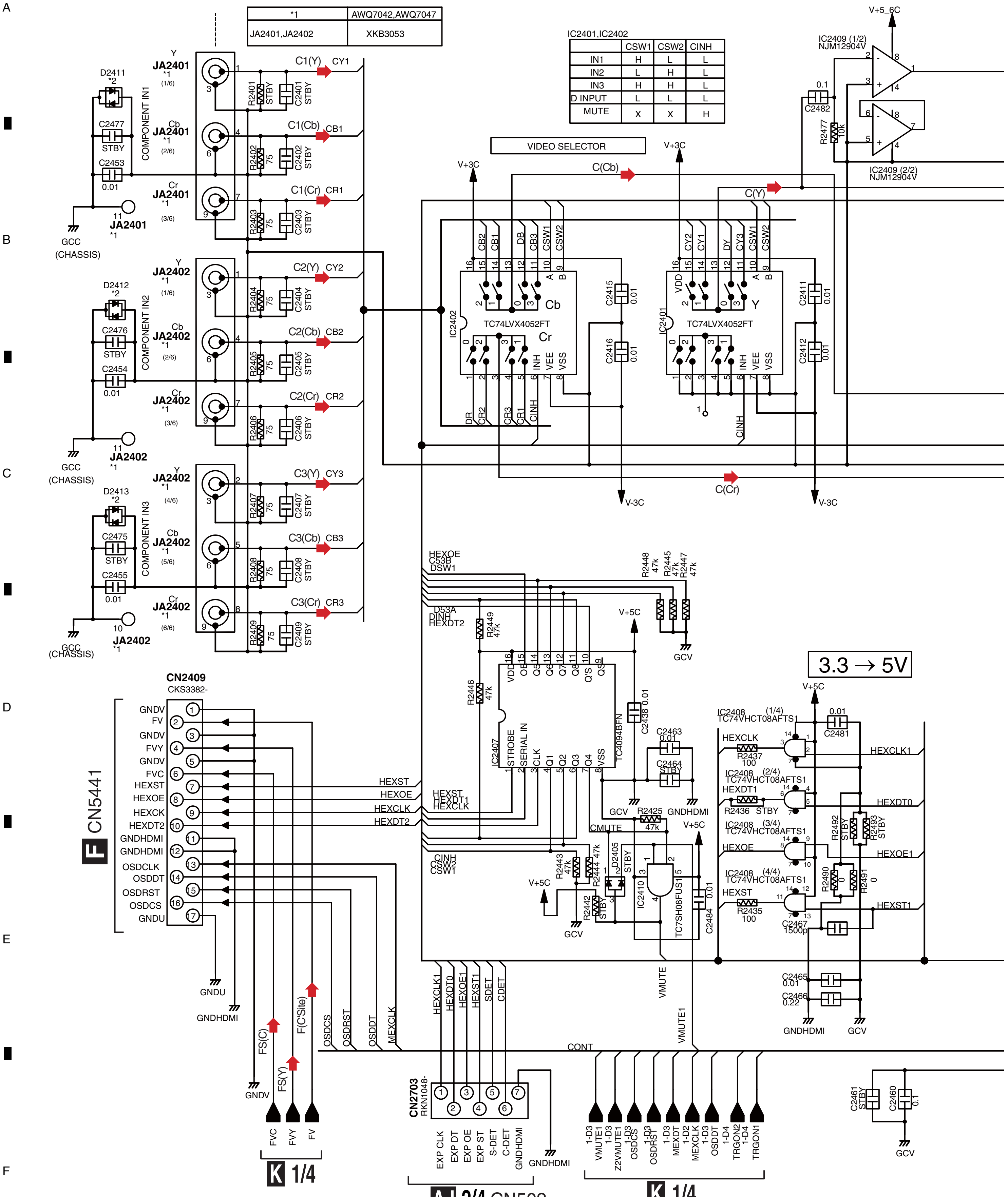
TX
GND
SR
RX
SR +
JA2705
XKN3015
7 2 3 5 6 4 1
L2763 QTL1013
L2764 QTL1013
L2765 QTL1013
L2766 QTL1013
R2764 STBY
D2755
TXD
RXD
RMC
SRIN
C2756 STBY
GND
SR
JA2704
RKN1004
3
2
1
SR OUT
L2762 QTL1013
C2755 STBY
L2767 CTF1385
R2765 STBY
JA2703
RKN1004
3
2
1
IR IN 1
L2752 QTL1013
D2753 RB501V-40-TRB
R2761 STBY
L2760 CTF1385
L2754 QTL1013
24
22
1
10
2
IR OUT
IR IN 2
AKN-209
JA2702
R2760 STBY
D2754 RB501V-40-TRB
L2756 QTL1013
KN2701 VNE1948
2 1 4 3
C2783 0.1
C2784 470p
C2786 470p
C2785 0.1
C2780 STBY
C2779 0.1
C2778 STBY
C2791 STBY
C2792 STBY
GCC (CHASSIS)
GNDIR
GNDSR1
GNDSR
MRIN2
MRIN1
SROUT
SR IN
RMC
RXD
TXD
12VDET
K 1/4
1-D4 12VDET
1-D4 MRIN1
1-D4 MRIN2
1-D4 RMC
1-D4 TXD
1-D4 RXD
RXD
1-D4 SROUT
1-D4 SRIN
1-D3 T_DO
1-D3 T_DI
1-D3 T_CLK
1-D3 T_CE
1-D3 RDSRST
1-D3 RDSCK
1-D4 RDSDT
CONT
V+5_6C
V+12T
for MAIN Ucom Power connected CN2504
V+5_6U
D2410 STBY
GCV
V-5_6C
CN2402 TLC-P07X-B1
① ② ③ ④ ⑤ ⑥ ⑦
12VDET
V-5.6V
GNDV
GNDV
V+5.6V
GNDA
V+12T
C2789 STBY
C2790 STBY
GTRG
GNDU
N 1/2 CN4315

10.10 COMPONENT & VOL ASSY (4/4)

*1	AWQ7042,AWQ7047
JA2401,JA2402	XKB3053

IC2401,IC2402

	CSW1	CSW2	CINH
IN1	H	L	L
IN2	L	H	L
IN3	H	H	L
D INPUT	L	L	L
MUTE	X	X	H



COMPONENT IN1
COMPONENT IN2
COMPONENT IN3
JA2401
JA2402
Y
Cb
Cr
D2411 *2
D2412 *2
D2413 *2
C2477 STBY
C2453 0.01
C2476 STBY
C2454 0.01
C2475 STBY
C2455 0.01
GCC (CHASSIS)
C1(Y) CY1
C1(Cb) CB1
C1(Cr) CR1
C2(Y) CY2
C2(Cb) CB2
C2(Cr) CR2
C3(Y) CY3
C3(Cb) CB3
C3(Cr) CR3
R2401 STBY
C2401 STBY
R2402 75
R2403 75
R2404 75
R2405 75
R2406 75
R2407 75
R2408 75
R2409 75
VIDEO SELECTOR
V+3C
V-3C
C(Cb)
C(Y)
C(Cr)
IC2402
IC2401
TC74LVX4052FT
C2415 0.01
C2416 0.01
C2411 0.01
C2412 0.01
IC2409 (1/2) NJM12904V
IC2409 (2/2) NJM12904V
V+5_6C
C2482 0.1
R2477 10k
HEXOE
C53B
DSW1
D53A
DINH
HEXDT2
R2448 47k
R2445 47k
R2447 47k
R2449 47k
R2446 47k
V+5C
GCV
IC2407
TC74094BFN
C2438 0.01
C2463 0.01
C2464 STBY
GNDHDMI
R2425 47k
CMUTE
D2405 STBY
IC2410
TC7SH08FUS1
C2484 0.01
R2443 47k
R2444 47k
R2442 STBY
3.3 → 5V
IC2408 (1/4) TC74VHCT08AFTS1
IC2408 (2/4) TC74VHCT08AFTS1
IC2408 (3/4) TC74VHCT08AFTS1
IC2408 (4/4) TC74VHCT08AFTS1
C2481 0.01
HEXCLK
R2437 100
HEXCLK1
HEXDT1
R2436 STBY
HEXDT0
HEXOE1
HEXST
R2435 100
HEXST1
R2492 STBY
R2493 STBY
R2490 0
R2491 0
C2467 1500p
C2465 0.01
C2466 0.22
CN2409
CKS3382-
GNDV
FV
FVY
FVC
HEXST
HEXOE
HEXCK
HEXDT2
GNDHDMI
OSDCLK
OSDDT
OSDRST
OSDCS
GNDU
F CN5441
FS(C)
FS(Y)
F(CSite)
OSDCS
OSDRST
OSDDT
MEXCLK
HEXCLK1
HEXDT0
HEXOE1
HEXST1
SDET
CDET
VMUTE
VMUTE1
CONT
CN2703
RKN1048-
EXP CLK
EXP DT
EXP OE
EXP ST
S-DET
C-DET
GNDHDMI
FVC
FVY
FV
K 1/4
1-D3 VMUTE1
1-D3 Z2VMUTE1
1-D3 OSDCS
1-D3 OSDRST
1-D3 MEXDT
1-D2 MEXCLK
1-D3 OSDDT
1-D4 TRGON2
1-D4 TRGON1
AJ 2/4 CN502
AK 2/3 CN502
C2461 STBY
C2460 0.1

K 4/4

K 4/4 COMPONENT & VOL ASSY
(VSX-LX70:AWQ7042)
(VSX-LX60:AWQ7047)

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

*2	AWQ7042,AWQ7047
D2411-D2414	DAN217U
C2474	0.47/10

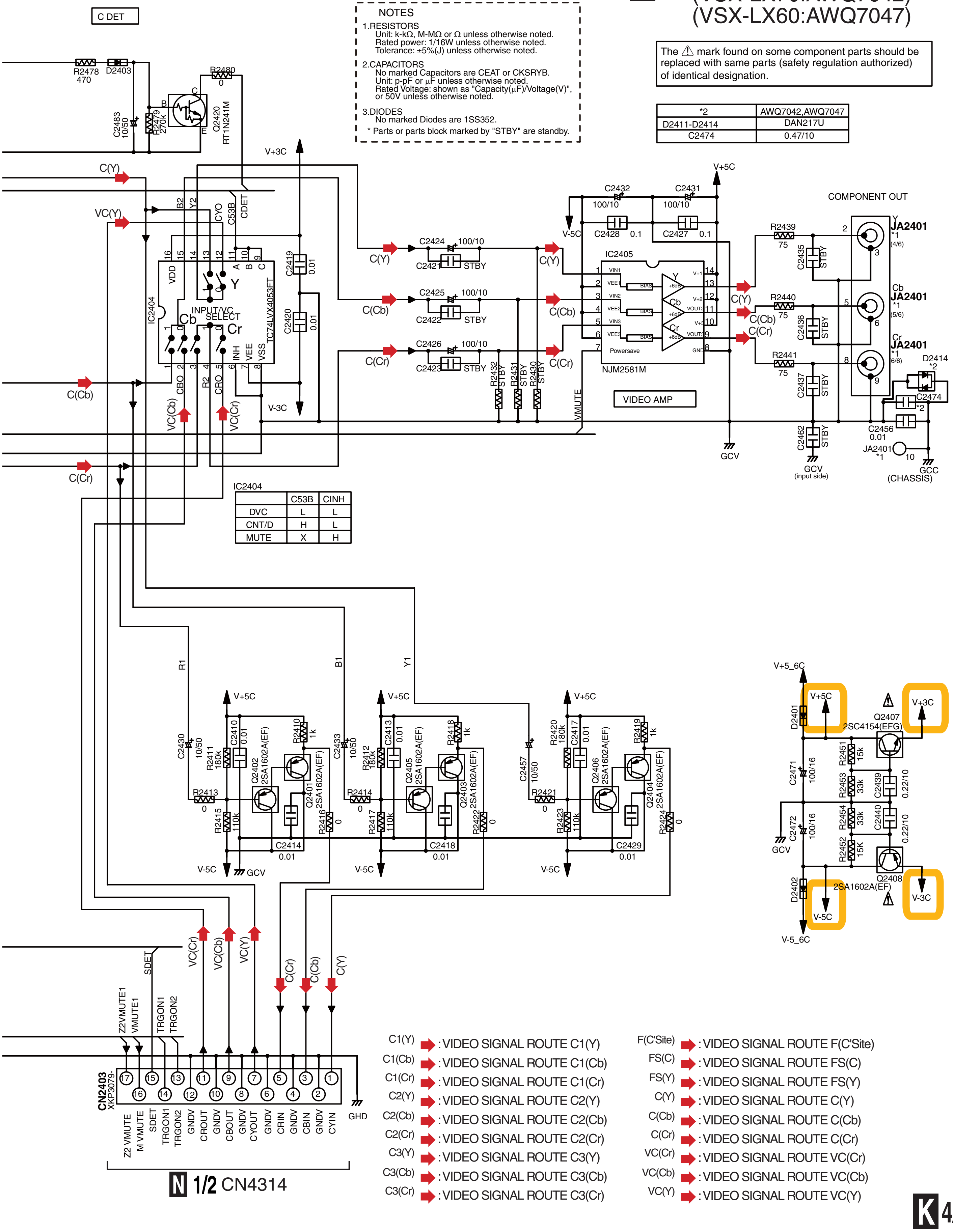
NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

* Parts or parts block marked by "STBY" are standby.



C DET
R2478 470
D2403
R2480 0
Q2420 RT1N241M
C2483 10/50
R2479 270k
C(Y)
VC(Y)
C(Cb)
C(Cr)
VC(Cb)
VC(Cr)
V+3C
V-3C
IC2404 TC74LVX4053FT
INPUT/VC SELECT
VDD INH VEE VSS
C2419 0.01
C2420 0.01
C2424 100/10
C2425 100/10
C2426 100/10
C2421 STBY
C2422 STBY
C2423 STBY
R2432 STBY
R2431 STBY
R2430 STBY
VMUTE
V+5C
V-5C
C2432 100/10
C2431 100/10
C2428 0.1
C2427 0.1
IC2405 NJM2581M
VIDEO AMP
COMPONENT OUT
R2439 75
R2440 75
R2441 75
C2435 STBY
C2436 STBY
C2437 STBY
C2462 STBY
JA2401
D2414 *2
C2474 *2
C2456 0.01
GCV
GCV (input side)
GCC (CHASSIS)
R1
B1
Y1
Q2401 2SA1602A(EF)
Q2402 2SA1602A(EF)
Q2403 2SA1602A(EF)
Q2404 2SA1602A(EF)
Q2405 2SA1602A(EF)
Q2406 2SA1602A(EF)
C2430 10/50
C2433 10/50
C2457 10/50
R2411 180k
R2412 180k
R2420 180k
R2410 1k
R2418 1k
R2419 1k
C2410 0.01
C2413 0.01
C2417 0.01
R2413 0
R2414 0
R2421 0
R2415 110k
R2417 110k
R2423 110k
R2416 0
R2422 0
R2424 0
C2414 0.01
C2418 0.01
C2429 0.01
V+5_6C
V-5_6C
D2401
D2402
Q2407 2SC4154(EFG)
Q2408 2SA1602A(EF)
R2451 15k
R2453 33k
R2454 33k
R2452 15K
C2471 100/16
C2472 100/16
C2439 0.22/10
C2440 0.22/10
CN2403 XKP3079-
Z2 VMUTE
M VMUTE
SDET
TRGON1
TRGON2
GNDV
CROUT
CBOUT
CYOUT
CRIN
CBIN
CYIN
GHD
N 1/2 CN4314

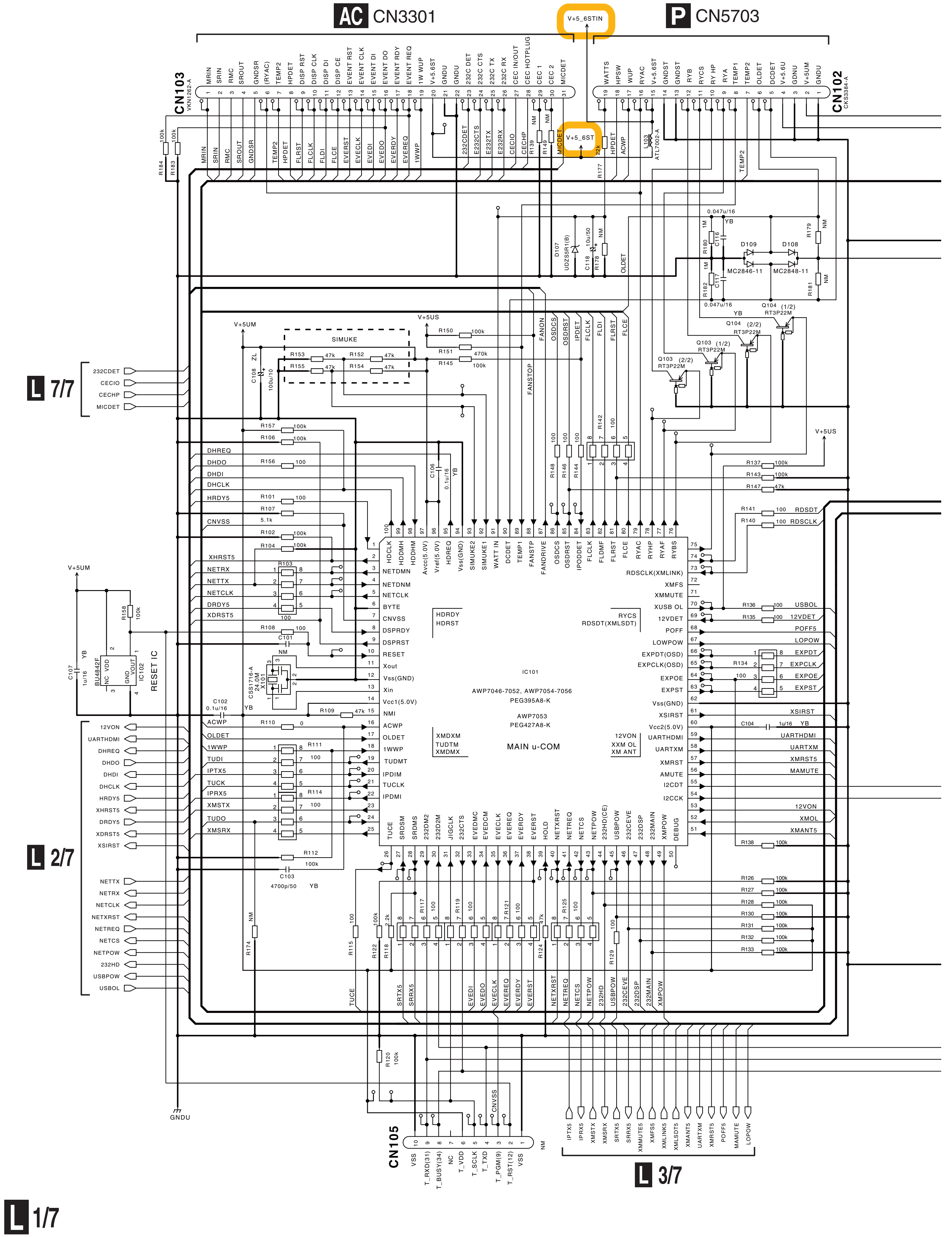
IC2404

	C53B	CINH
DVC	L	L
CNT/D	H	L
MUTE	X	H

C1(Y) ➡ : VIDEO SIGNAL ROUTE C1(Y)
C1(Cb) ➡ : VIDEO SIGNAL ROUTE C1(Cb)
C1(Cr) ➡ : VIDEO SIGNAL ROUTE C1(Cr)
C2(Y) ➡ : VIDEO SIGNAL ROUTE C2(Y)
C2(Cb) ➡ : VIDEO SIGNAL ROUTE C2(Cb)
C2(Cr) ➡ : VIDEO SIGNAL ROUTE C2(Cr)
C3(Y) ➡ : VIDEO SIGNAL ROUTE C3(Y)
C3(Cb) ➡ : VIDEO SIGNAL ROUTE C3(Cb)
C3(Cr) ➡ : VIDEO SIGNAL ROUTE C3(Cr)

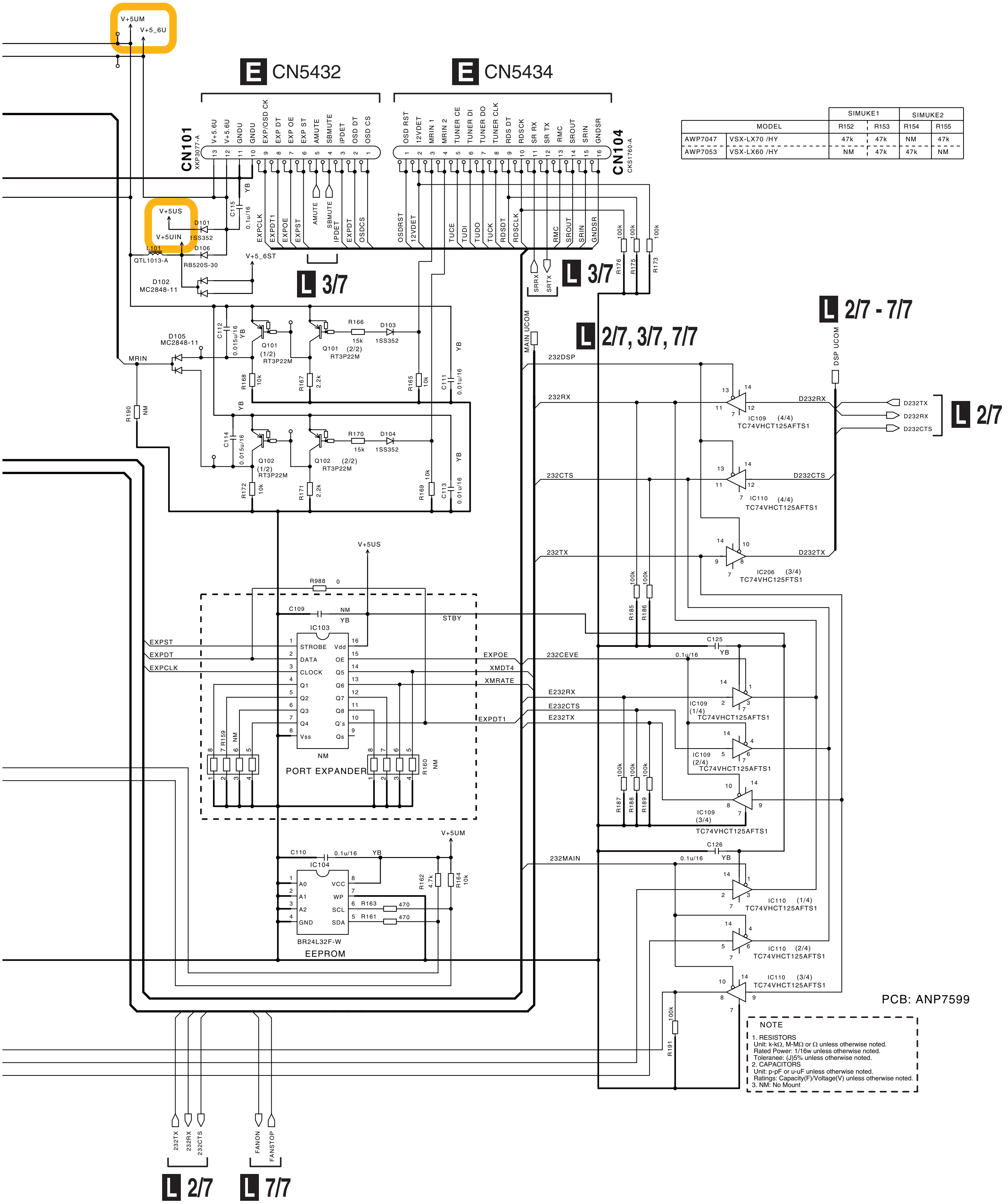
F(C'Site) ➡ : VIDEO SIGNAL ROUTE F(C'Site)
FS(C) ➡ : VIDEO SIGNAL ROUTE FS(C)
FS(Y) ➡ : VIDEO SIGNAL ROUTE FS(Y)
C(Y) ➡ : VIDEO SIGNAL ROUTE C(Y)
C(Cb) ➡ : VIDEO SIGNAL ROUTE C(Cb)
C(Cr) ➡ : VIDEO SIGNAL ROUTE C(Cr)
VC(Cr) ➡ : VIDEO SIGNAL ROUTE VC(Cr)
VC(Cb) ➡ : VIDEO SIGNAL ROUTE VC(Cb)
VC(Y) ➡ : VIDEO SIGNAL ROUTE VC(Y)

10.11 DIGITAL MOTHER ASSY (1/7)



AC CN3301
P CN5703
V+5_6STIN
V+5_6ST
CN103 VKN1262-A
CN102 CKS3384-A
MRIN
SRIN
RMC
SROUT
GNDSR
(RYAC)
TEMP2
HPDET
DISP RST
DISP CLK
DISP DI
DISP CE
EVENT RST
EVENT CLK
EVENT DI
EVENT DO
EVENT RDY
EVENT REQ
1W WUP
V+5.6ST
GNDU
232C DET
232C CTS
232C TX
232C RX
CEC IN/OUT
CEC HOTPLUG
CEC 1
CEC 2
MICDET
WATTS
HPSW
WUP
RYAC
V+5.6ST
GNDST
RYB
RYCS
RY HP
RYA
TEMP1
TEMP2
OLDET
DCDET
V+5.6U
GDNU
V+5UM
GNDU
R184 100k
R183 100k
L103 ATL7002-A
D107 UDZS5R1(B)
C118 10u/50
R178 NM
R177 22k
D109
D108
MC2846-11
MC2848-11
R180 1M
R182 1M
C116 0.047u/16 YB
C117 0.047u/16 YB
R179 NM
R181 NM
Q104 (1/2) RT3P22M
Q104 (2/2) RT3P22M
Q103 (1/2) RT3P22M
Q103 (2/2) RT3P22M
V+5UM
V+5US
SIMUKE
R153 47k
R152 47k
R155 47k
R154 47k
R150 100k
R151 470k
R145 100k
C108 100u/10 ZL
C106 0.1u/16 YB
FANON
OSDCS
OSDRST
IPDET
FLCLK
FLDI
FLRST
FLCE
FANSTOP
L 7/7
232CDET
CECIO
CECHP
MICDET
DHREQ
DHDO
DHDI
DHCLK
HRDY5
CNVSS
XHRST5
NETRX
NETTX
NETCLK
DRDY5
XDRST5
ACWP
OLDET
1WWP
TUDI
IPTX5
TUCK
IPRX5
XMSTX
TUDO
XMSRX
R157 100k
R106 100k
R156 100
R101 100
R107
R102 100k
R104 100k
R103 100
R108 100
C101 NM
CSS1716-A X101 24.0M
C102 0.1u/16 YB
R109 47k
R110 0
R111 100
R114 100
R112 100k
C103 4700p/50 YB
R174 NM
V+5UM
R158 100k
C107 1u/16 YB
BU4842F
IC102
RESET IC
NC VDD GND VOUT
L 2/7
12VON
UARTHDMI
DHREQ
DHDO
DHDI
DHCLK
HRDY5
XHRST5
DRDY5
XDRST5
XSIRST
NETTX
NETRX
NETCLK
NETXRST
NETREQ
NETCS
NETPOW
232HD
USBPOW
USBOL
IC101
AWP7046-7052, AWP7054-7056
PEG395A8-K
AWP7053
PEG427A8-K
MAIN u-COM
HDCLK
HDDMH
HDDMI
Avcc(5.0V)
Vref(5.0V)
HDREQ
Vss(GND)
SIMUKE2
SIMUKE1
WATT IN
DCDET
TEMP1
FANSTP
FANDRIVE
OSDCS
OSDRST
IPODDET
FLCLK
FLDMF
FLRST
FLCE
RYAC
RYHP
RYAF
RYBS
NETDMN
NETDNM
NETCLK
BYTE
CNVSS
DSPRDY
DSPRST
RESET
Xout
Vss(GND)
Xin
Vcc1(5.0V)
NMI
ACWP
OLDET
1WWP
TUDMT
IPDIM
TUCLK
IPDMI
HDRDY
HDRST
XMDXM
TUDTM
XMDMX
RDSCLK(XMLINK)
XMFS
XMMUTE
XUSB OL
12VDET
POFF
LOWPOW
EXPDT(OSD)
EXPCLK(OSD)
EXPOE
EXPST
Vss(GND)
XSIRST
Vcc2(5.0V)
UARTHDMI
UARTXM
XMRST
AMUTE
I2CDT
I2CCK
RYCS
RDSDT(XMLSDT)
12VON
XXM OL
XM ANT
TUCE
SRDSM
SRDMS
232DM2
232D2M
JIGCLK
232CTS
EVEDMC
EVEDCM
EVECLK
EVEREQ
EVERDY
EVERST
HOLD
NETXRST
NETREQ
NETCS
NETPOW
232HD(CE)
USBPOW
232CEVE
232DSP
232MAIN
XMPOW
DEBUG
R137 100k
R143 100k
R147 47k
R141 100 RDSDT
R140 100 RDSCLK
R136 100 USBOL
R135 100 12VDET
POFF5
LOPOW
R134 100
EXPDT
EXPCLK
EXPOE
EXPST
XSIRST
C104 1u/16 YB
UARTHDMI
UARTXM
XMRST5
MAMUTE
12VON
XMOL
XMANT5
R138 100k
R126 100k
R127 100k
R128 100k
R130 100k
R131 100k
R132 100k
R133 100k
R148 100
R146 100
R144 100
R142 100
R115 100
R122 100k
R118 2.2k
R117 100
R119 100
R121 100
R124 47k
R125 100
R129 100
R120 100k
TUCE
SRTX5
SRRX5
EVEDI
EVEDO
EVECLK
EVEREQ
EVERDY
EVERST
NETXRST
NETREQ
NETCS
NETPOW
232HD
USBPOW
232CEVE
232DSP
232MAIN
XMPOW
GNDU
CN105
VSS
T_RXD(31)
T_BUSY(34)
NC
T_VDD
T_SCLK
T_TXD
T_PGM(9)
T_RST(12)
VSS
CNVSS
NM
IPTX5
IPRX5
XMSTX
XMSRX
SRTX5
SRRX5
XMMUTE5
XMFS5
XMLINK5
XMLSDT5
XMANT5
UARTXM
XMRST5
POFF5
MAMUTE
LOPOW
L 3/7
L 1/7

L 1/7 DIGITAL MOTHER ASSY
(VSX-LX70:AWP7047)
(VSX-LX60:AWP7053)


V+5UM
V+5_6U
E CN5432
E CN5434
CN101
XKP3077-A
V+5.6U
V+5.6U
GNDU
GNDU
EXP/OSD CK
EXP DT
EXP OE
EXP ST
AMUTE
SBMUTE
IPDET
OSD DT
OSD CS
OSD RST
12VDET
MRIN 1
MRIN 2
TUNER CE
TUNER DI
TUNER DO
TUNER CLK
RDS DT
RDSCK
SR RX
SR TX
RMC
SROUT
SRIN
GNDSR
CN104
CKS1760-A
YB
C115
0.1u/16
EXPCLK
EXPDT1
EXPOE
EXPST
AMUTE
SBMUTE
IPDET
EXPDT
OSDCS
OSDRST
12VDET
TUCE
TUDI
TUDO
TUCK
RDSDT
RDSCLK
RMC
SROUT
SRIN
GNDSR
R176 100k
R175 100k
R173 100k
V+5US
D101
V+5UIN
1SS352
D106
L101
QTL1013-A
RB520S-30
V+5_6ST
L 3/7
D102
MC2848-11
SRRX
SRTX
L 3/7
C112
0.015u/16
YB
R166
D103
15k
1SS352
Q101 (1/2) RT3P22M
Q101 (2/2) RT3P22M
D105
MC2848-11
MRIN
R168 10k
R167 2.2k
R165 10k
C111 0.01u/16
YB
MAIN UCOM
L 2/7, 3/7, 7/7
232DSP
R190 NM
YB
C114
0.015u/16
R170
D104
15k
1SS352
Q102 (1/2) RT3P22M
Q102 (2/2) RT3P22M
R172 10k
R171 2.2k
R169 10k
C113 0.01u/16
YB
232RX
232CTS
232TX
L 2/7 - 7/7
DSP UCOM
IC109 (4/4) TC74VHCT125AFTS1
IC110 (4/4) TC74VHCT125AFTS1
IC206 (3/4) TC74VHC125FTS1
D232RX
D232CTS
D232TX
D232TX
D232RX
D232CTS
L 2/7
V+5US
R988 0
C109 NM
YB
IC103
STBY
EXPST
EXPDT
EXPCLK
STROBE
DATA
CLOCK
Q1
Q2
Q3
Q4
Vss
Vdd
OE
Q5
Q6
Q7
Q8
Q's
Qs
EXPOE
XMDT4
XMRATE
EXPDT1
R159 NM
NM
PORT EXPANDER
R160 NM
R185 100k
R186 100k
232CEVE
C125 0.1u/16 YB
E232RX
E232CTS
E232TX
IC109 (1/4) TC74VHCT125AFTS1
IC109 (2/4) TC74VHCT125AFTS1
IC109 (3/4) TC74VHCT125AFTS1
R187 100k
R188 100k
R189 100k
V+5UM
C110 0.1u/16 YB
IC104
A0
A1
A2
GND
VCC
WP
SCL
SDA
R163 470
R161 470
R162 4.7k
R164 10k
BR24L32F-W
EEPROM
232MAIN
C126 0.1u/16 YB
IC110 (1/4) TC74VHCT125AFTS1
IC110 (2/4) TC74VHCT125AFTS1
IC110 (3/4) TC74VHCT125AFTS1
R191 100k
232TX
232RX
232CTS
FANON
FANSTOP
L 2/7
L 7/7
A
B
C
D
E
F

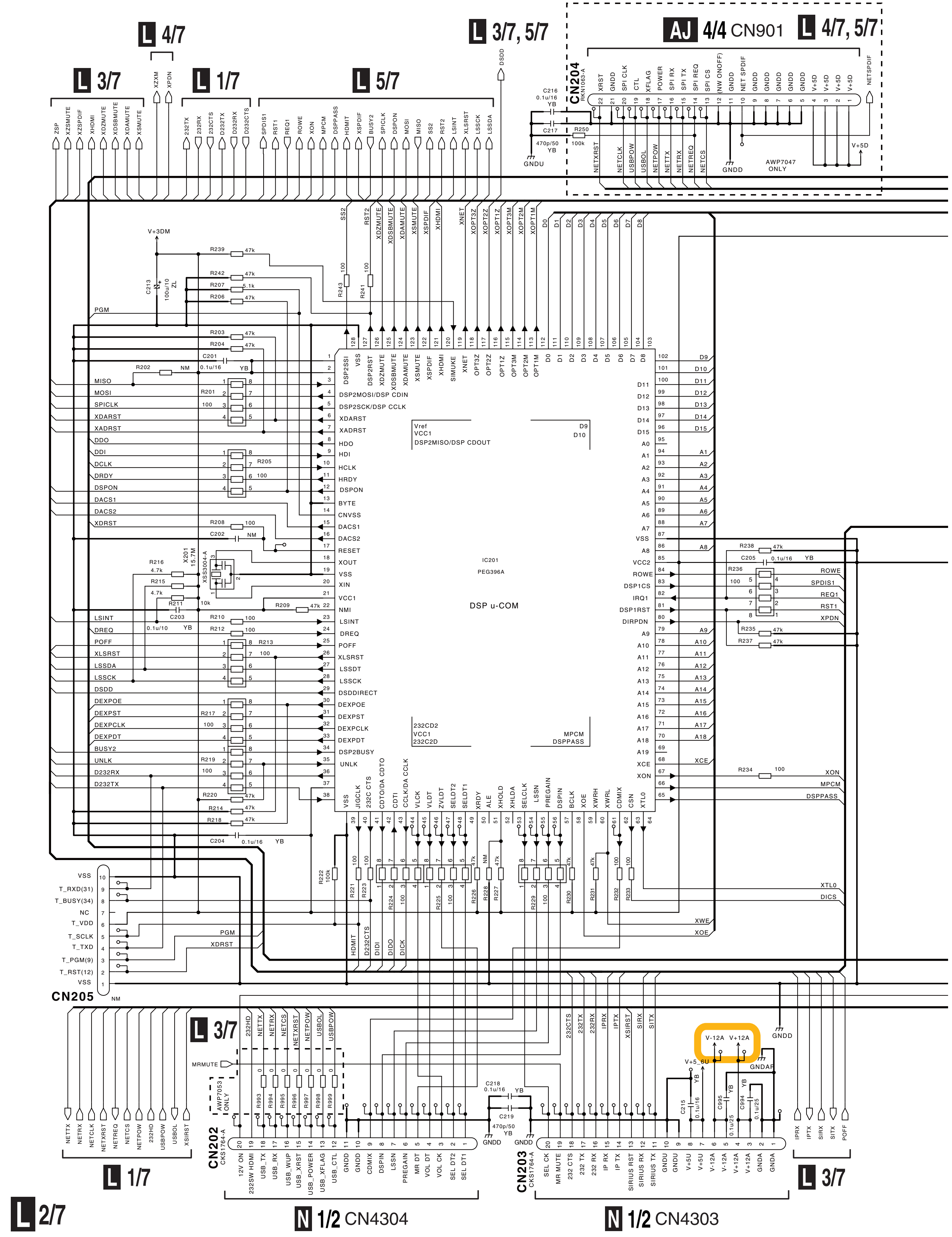
MODEL		SIMUKE1		SIMUKE2	
		R152	R153	R154	R155
AWP7047	VSX-LX70 /HY	47k	47k	NM	47k
AWP7053	VSX-LX60 /HY	NM	47k	47k	NM

PCB: ANP7599

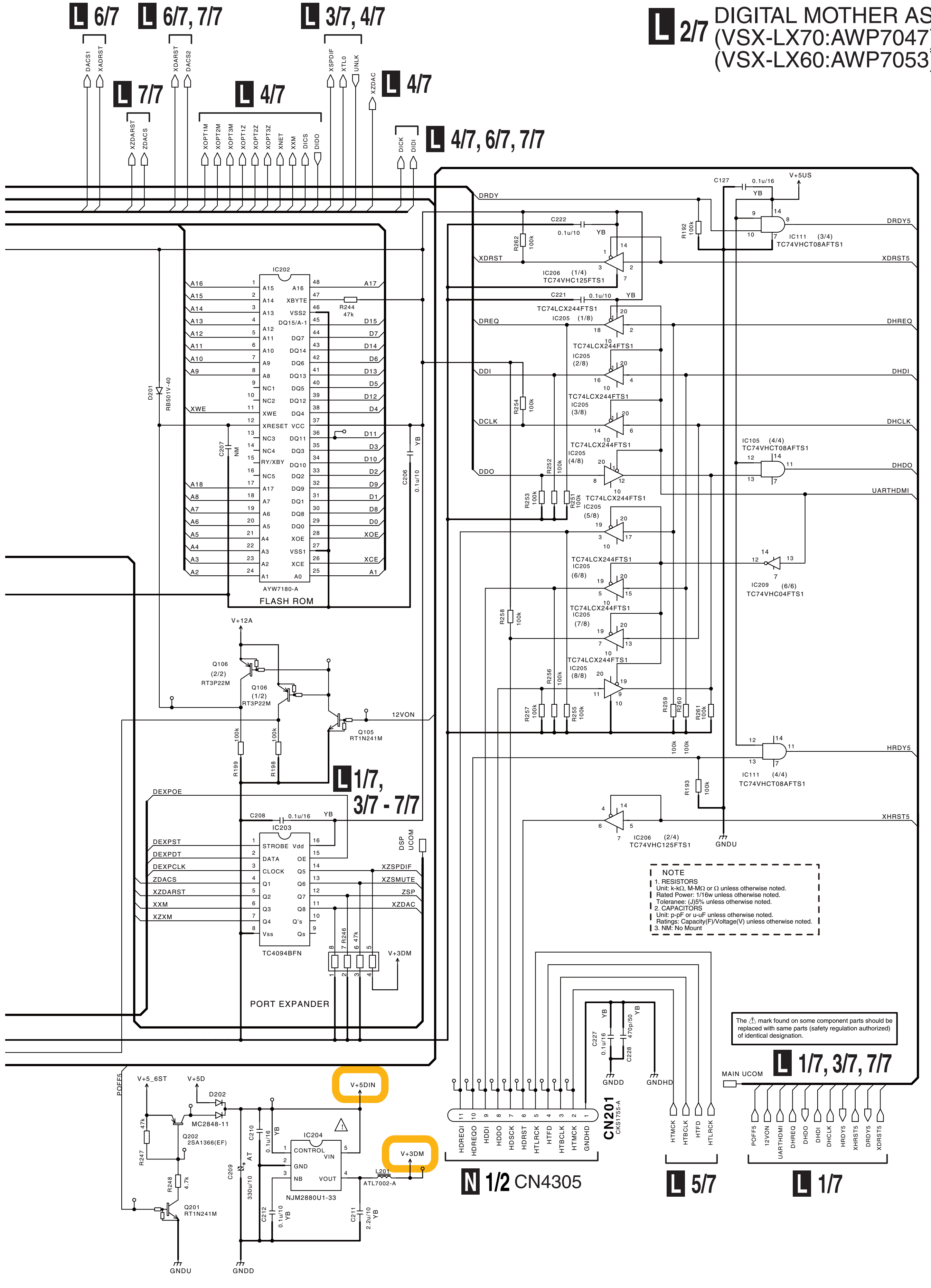
NOTE

1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

10.12 DIGITAL MOTHER ASSY (2/7)


L 4/7
XZXM
XPDN
L 3/7
ZSP
XZSMUTE
XZSPDIF
XHDMI
XDZMUTE
XDSBMUTE
XDAMUTE
XSMUTE
L 1/7
232TX
232RX
232CTS
D232TX
D232RX
D232CTS
L 5/7
SPDIS1
RST1
REQ1
ROWE
XON
MPCM
DSPPASS
HDMIT
XSPDIF
BUSY2
SPICLK
DSPON
MOSI
MISO
SS2
RST2
LSINT
XLSRST
LSSCK
LSSDA
L 3/7, 5/7
DSDD
AJ 4/4 CN901
L 4/7, 5/7
CN204
RKN1063-A
XRST
GNDD
SPI CLK
CTL
XFLAG
POWER
SPI RX
SPI TX
SPI REQ
SPI CS
(NW ONOFF)
GNDD
NET SPDIF
GNDD
V+5D
NETSPDIF
C216
0.1u/16
YB
C217
470p/50
YB
R250
100k
GNDU
NETXRST
NETCLK
USBPOW
USBOL
NETPOW
NETTX
NETRX
NETREQ
NETCS
GNDD
AWP7047
ONLY
V+5D
V+3DM
C213
100u/10
ZL
PGM
R239 47k
R242 47k
R207 5.1k
R206 47k
R243 100
R241 100
R203 47k
R204 47k
C201 0.1u/16 YB
R202 NM
R201 100
R205 100
R208 100
C202 NM
X201
15.7M
XSS3004-A
R216 4.7k
R215 4.7k
R211 10k
C203 0.1u/10 YB
R209 47k
R210 100
R212 100
R213 100
R217 100
R219 100
R220 47k
R214 47k
R218 47k
C204 0.1u/16 YB
MISO
MOSI
SPICLK
XDARST
XADRST
DDO
DDI
DCLK
DRDY
DSPON
DACS1
DACS2
XDRST
LSINT
DREQ
POFF
XLSRST
LSSDA
LSSCK
DSDD
DEXPOE
DEXPST
DEXPCLK
DEXPDT
BUSY2
UNLK
D232RX
D232TX
IC201
PEG396A
DSP u-COM
DSP2SSI
VSS
DSP2RST
XDZMUTE
XDSBMUTE
XDAMUTE
XSMUTE
XSPDIF
XHDMI
SIMUKE
XNET
OPT3Z
OPT2Z
OPT1Z
OPT3M
OPT2M
OPT1M
D0
D1
D2
D3
D4
D5
D6
D7
D8
DSP2MOSI/DSP CDIN
DSP2SCK/DSP CCLK
XDARST
XADRST
HDO
HDI
HCLK
HRDY
DSPON
BYTE
CNVSS
DACS1
DACS2
RESET
XOUT
VSS
XIN
VCC1
NMI
LSINT
DREQ
POFF
XLSRST
LSSDT
LSSCK
DSDDIRECT
DEXPOE
DEXPST
DEXPCLK
DEXPDT
DSP2BUSY
UNLK
Vref
VCC1
DSP2MISO/DSP CDOUT
D9
D10
232CD2
VCC1
232C2D
MPCM
DSPPASS
D11
D12
D13
D14
D15
A0
A1
A2
A3
A4
A5
A6
A7
VSS
A8
VCC2
ROWE
DSP1CS
IRQ1
DSP1RST
DIRPDN
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
XCE
XON
VSS
JIGCLK
232C CTS
CDTO/DA CDTO
CDTI
CCLK/DA CCLK
VLCK
VLDT
ZVLDT
SELDT2
SELDT1
XRDY
ALE
XHOLD
XHLDA
SELCLK
LSSN
PREGAIN
DSPIN
BCLK
XOE
XWRH
XWRL
CDMIX
CSN
XTL0
SS2
RST2
XDZMUTE
XDSBMUTE
XDAMUTE
XSMUTE
XSPDIF
XHDMI
XNET
XOPT3Z
XOPT2Z
XOPT1Z
XOPT3M
XOPT2M
XOPT1M
R238 47k
C205 0.1u/16 YB
R236 100
R235 47k
R237 47k
R234 100
ROWE
SPDIS1
REQ1
RST1
XPDN
XON
MPCM
DSPPASS
XTL0
DICS
XWE
XOE
R222 100k
R221
R223
R224
R225
R226 NM
R227 47k
R228
R229
R230 47k
R231 47k
R232 100
R233 100
HDMIT
D232CTS
DIDI
DIDO
DICK
VSS
T_RXD(31)
T_BUSY(34)
NC
T_VDD
T_SCLK
T_TXD
T_PGM(9)
T_RST(12)
VSS
PGM
XDRST
CN205
NM
NETTX
NETCLK
NETXRST
NETREQ
NETCS
NETPOW
232HD
USBPOW
USBOL
XSIRST
L 1/7
L 3/7
232HD
NETTX
NETRX
NETCS
NETXRST
NETPOW
USBOL
USBPOW
MRMUTE
AWP7053
ONLY
R993
R994
R995
R996
R997
R998
R999
CN202
CKS1764-A
12V ON
232SW HDMI
USB_TX
USB_RX
USB_WUP
USB_XRST
USB_POWER
USB_XFLAG
USB_CTL
GNDD
GNDD
CDMIX
DSPIN
LSSN
PREGAIN
MR DT
VOL DT
VOL CK
SEL DT2
SEL DT1
C218 0.1u/16 YB
C219 470p/50 YB
GNDD
GNDD
CN203
CKS1764-A
SEL CK
MR MUTE
232 CTS
232 TX
232 RX
IP RX
IP TX
SIRIUS RST
SIRIUS RX
SIRIUS TX
GNDU
GNDU
V+5U
V+5U
V-12A
V-12A
V+12A
V+12A
GNDA
GNDA
232CTS
232TX
232RX
IPRX
IPTX
XSIRST
SIRX
SITX
V-12A
V+12A
V+5_6U
GNDD
GNDAP
C215 0.1u/16 YB
C995 0.1u/25 YB
C994 0.1u/25 YB
IPRX
IPTX
SIRX
SITX
POFF
L 3/7
L 2/7
N 1/2 CN4304
N 1/2 CN4303

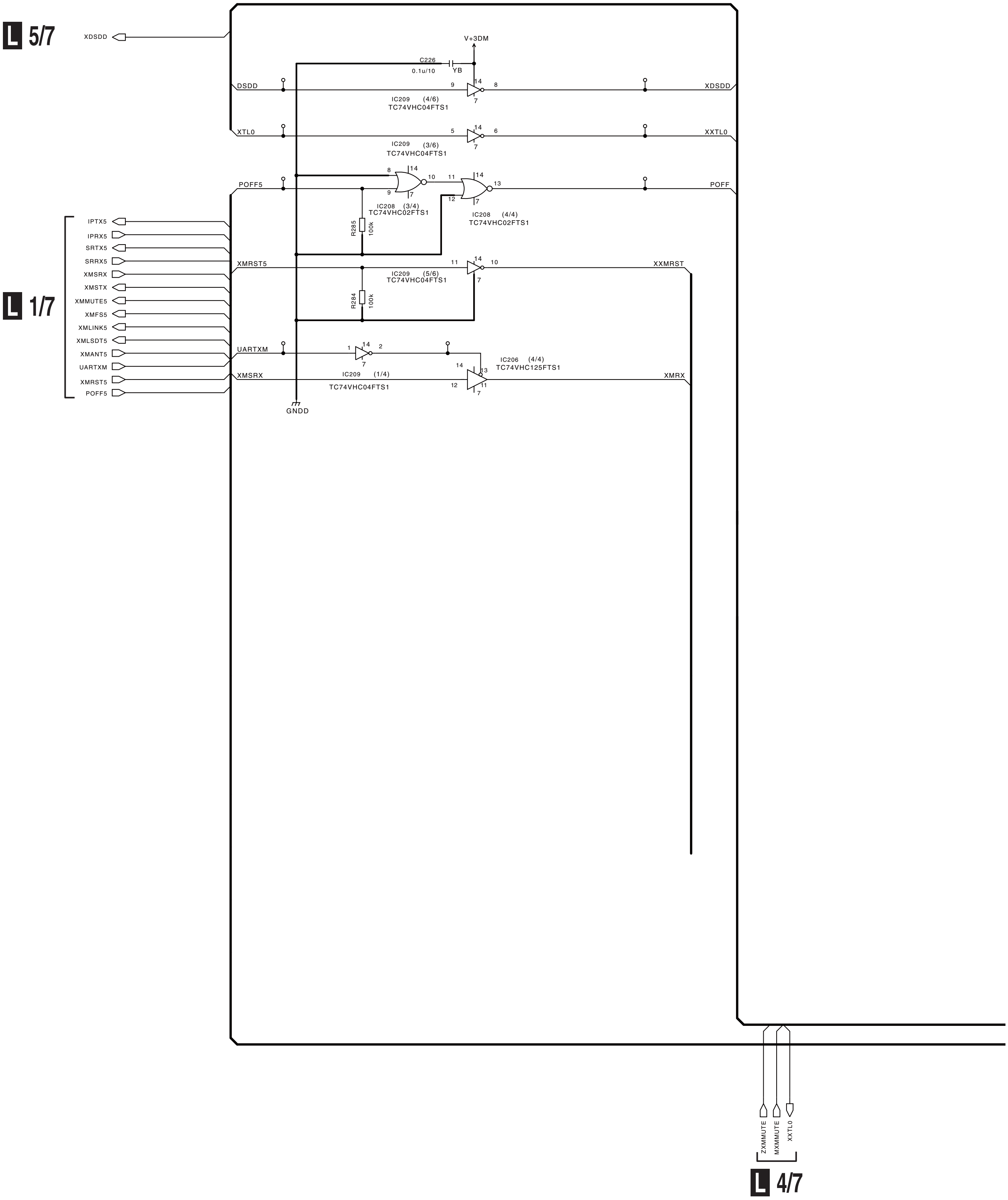
L 2/7 DIGITAL MOTHER ASSY
(VSX-LX70:AWP7047)
(VSX-LX60:AWP7053)


L 6/7
DACS1
XADRST
L 6/7, 7/7
XDARST
DACS2
L 3/7, 4/7
XSPDIF
XTL0
UNLK
L 7/7
XZDARST
ZDACS
L 4/7
XOPT1M
XOPT2M
XOPT3M
XOPT1Z
XOPT2Z
XOPT3Z
XNET
XXM
DICS
DIDO
XZDAC
L 4/7
DICK
DIDI
L 4/7, 6/7, 7/7
IC202
AYW7180-A
FLASH ROM
R244 47k
D201 RB501V-40
C207 NM
C206 0.1u/10
YB
XWE
V+12A
Q106 (2/2) RT3P22M
Q106 (1/2) RT3P22M
Q105 RT1N241M
12VON
R199 100k
R198 100k
L 1/7, 3/7 - 7/7
DEXPOE
DEXPST
DEXPDT
DEXPCLK
ZDACS
XZDARST
XXM
XZXM
C208 0.1u/16
IC203
TC4094BFN
PORT EXPANDER
XZSPDIF
XZSMUTE
ZSP
XZDAC
DSP UCOM
R246 47k
V+3DM
DRDY
XDRST
DREQ
DDI
DCLK
DDO
C222 0.1u/10
C221 0.1u/10
R262 100k
IC206 (1/4) TC74VHC125FTS1
IC205 (1/8) TC74LCX244FTS1
IC205 (2/8)
IC205 (3/8)
IC205 (4/8)
IC205 (5/8)
IC205 (6/8)
IC205 (7/8)
IC205 (8/8)
R254 100k
R252 100k
R253 100k
R251 100k
R258 100k
R256 100k
R257 100k
R255 100k
R259 100k
R260 100k
R261 100k
C127 0.1u/16
V+5US
R192 100k
IC111 (3/4) TC74VHCT08AFTS1
DRDY5
XDRST5
DHREQ
DHDI
DHCLK
IC105 (4/4) TC74VHCT08AFTS1
DHDO
UARTHDMI
IC209 (6/6) TC74VHC04FTS1
IC111 (4/4) TC74VHCT08AFTS1
HRDY5
R193 100k
IC206 (2/4) TC74VHC125FTS1
XHRST5
GNDU
C227 0.1u/16
C228 470p/50
GNDD
GNDHD
CN201 CKS1755-A
HDREQI
HDREQO
HDDI
HDDO
HDSCK
HDRST
HTLRCK
HTFD
HTBCLK
HTMCK
GNDHD
N 1/2 CN4305
HTMCK
HTBCLK
HTFD
HTLRCK
L 5/7
MAIN UCOM
POFF5
12VON
UARTHDMI
DHREQ
DHDO
DHDI
DHCLK
HRDY5
XHRST5
DRDY5
XDRST5
L 1/7
POFF5
V+5_6ST
V+5D
D202
MC2848-11
Q202 2SA1366(EF)
R247 47k
R248 4.7k
Q201 RT1N241M
GNDU
V+5DIN
C210 0.1u/16
IC204 NJM2880U1-33
CONTROL
VIN
GND
NB
VOUT
C209 330u/10
C212 0.1u/10
C211 2.2u/10
L201 ATL7002-A
V+3DM
GNDD

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

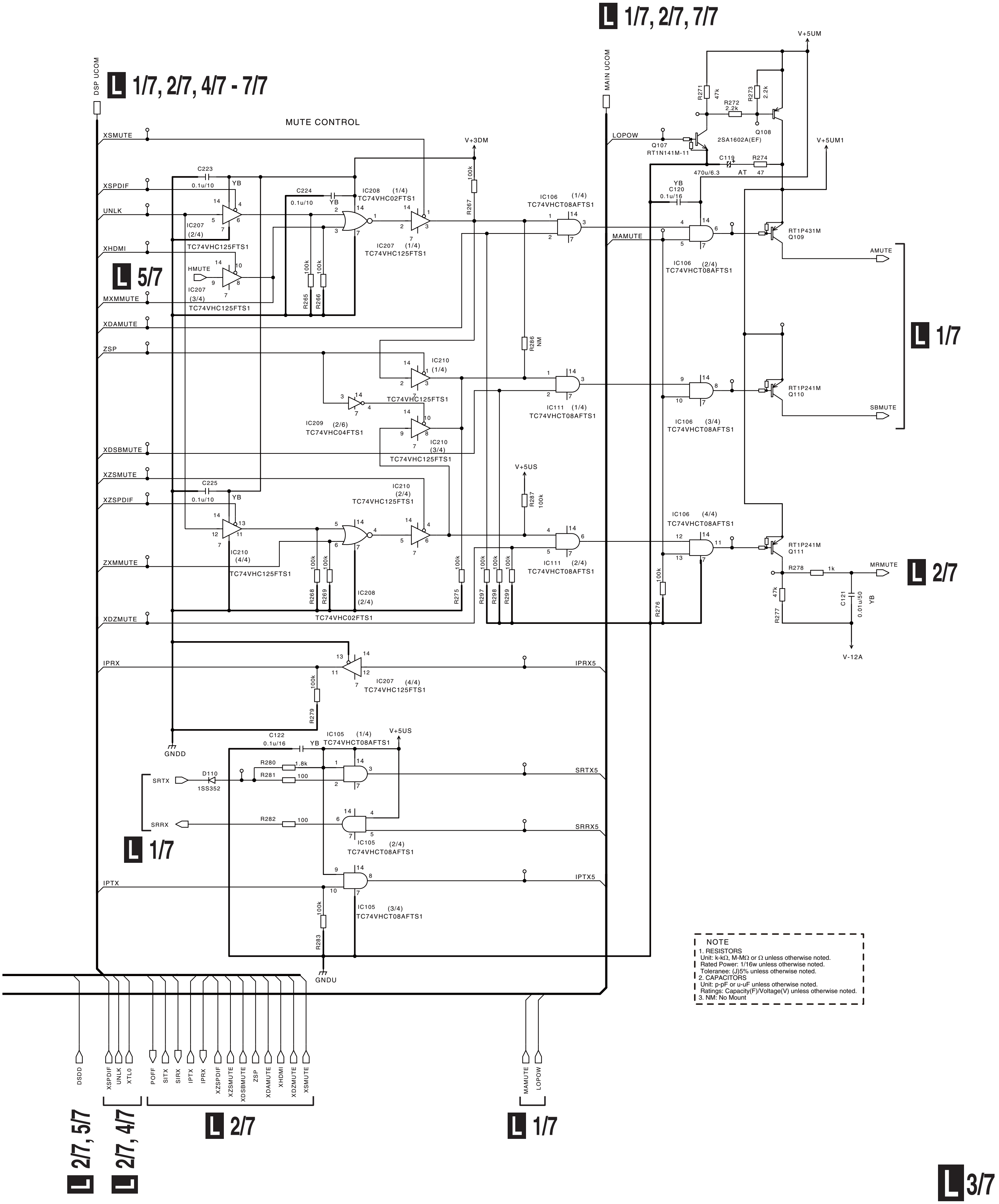
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

10.13 DIGITAL MOTHER ASSY (3/7)


L 5/7
XDSDD
V+3DM
C226
0.1u/10
YB
DSDD
IC209 (4/6)
TC74VHC04FTS1
XDSDD
XTL0
IC209 (3/6)
TC74VHC04FTS1
XXTL0
POFF5
IC208 (3/4)
TC74VHC02FTS1
IC208 (4/4)
TC74VHC02FTS1
POFF
R285
100k
XMRST5
IC209 (5/6)
TC74VHC04FTS1
XXMRST
R284
100k
UARTXM
IC206 (4/4)
TC74VHC125FTS1
XMSRX
IC209 (1/4)
TC74VHC04FTS1
XMRX
GNDD
L 1/7
IPTX5
IPRX5
SRTX5
SRRX5
XMSRX
XMSTX
XMMUTE5
XMFS5
XMLINK5
XMLSDT5
XMANT5
UARTXM
XMRST5
POFF5
ZXMMUTE
MXMMUTE
XXTL0
L 4/7

L 3/7

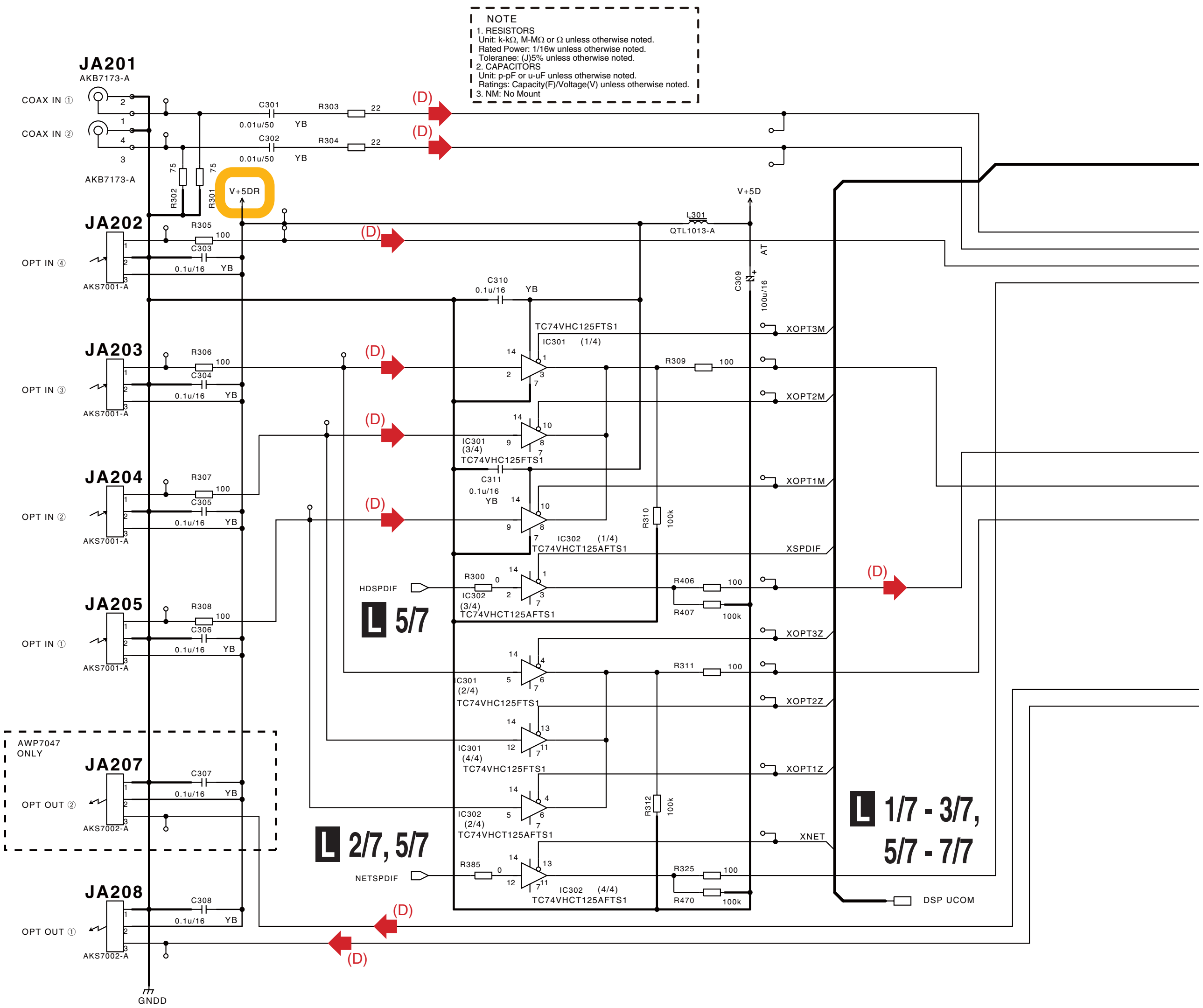
L 3/7 DIGITAL MOTHER ASSY (VSX-LX70:AWP7047) (VSX-LX60:AWP7053)


L 1/7, 2/7, 7/7
L 1/7, 2/7, 4/7 - 7/7
DSP UCOM
MAIN UCOM
MUTE CONTROL
XSMUTE
XSPDIF
UNLK
XHDMI
MXMMUTE
XDAMUTE
ZSP
XDSBMUTE
XZSMUTE
XZSPDIF
ZXMMUTE
XDZMUTE
IPRX
IPTX
HMUTE
L 5/7
C223 0.1u/10 YB
C224 0.1u/10 YB
C225 0.1u/10 YB
IC207 (2/4) TC74VHC125FTS1
IC207 (3/4) TC74VHC125FTS1
IC207 (1/4) TC74VHC125FTS1
IC207 (4/4) TC74VHC125FTS1
IC208 (1/4) TC74VHC02FTS1
IC208 (2/4) TC74VHC02FTS1
IC209 (2/6) TC74VHC04FTS1
IC210 (1/4) TC74VHC125FTS1
IC210 (2/4) TC74VHC125FTS1
IC210 (3/4) TC74VHC125FTS1
IC210 (4/4) TC74VHC125FTS1
IC106 (1/4) TC74VHCT08AFTS1
IC106 (2/4) TC74VHCT08AFTS1
IC106 (3/4) TC74VHCT08AFTS1
IC106 (4/4) TC74VHCT08AFTS1
IC111 (1/4) TC74VHCT08AFTS1
IC111 (2/4) TC74VHCT08AFTS1
IC105 (1/4) TC74VHCT08AFTS1
IC105 (2/4) TC74VHCT08AFTS1
IC105 (3/4) TC74VHCT08AFTS1
R265 100k
R266 100k
R267 100k
R268 100k
R269 100k
R275 100k
R276 100k
R279 100k
R283 100k
R286 NM
R287 100k
R297 100k
R298 100k
R299 100k
V+3DM
V+5US
V+5UM
V+5UM1
LOPOW
MAMUTE
Q107 RT1N141M-11
Q108 2SA1602A(EF)
R271 47k
R272 2.2k
R273 2.2k
C119 470u/6.3
R274 47 AT
C120 0.1u/16 YB
RT1P431M Q109
RT1P241M Q110
RT1P241M Q111
AMUTE
SBMUTE
MRMUTE
L 1/7
L 2/7
R278 1k
R277 47k
C121 0.01u/50 YB
V-12A
IPRX5
GNDD
C122 0.1u/16 YB
R280 1.8k
R281 100
R282 100
D110 1SS352
SRTX
SRRX
SRTX5
SRRX5
IPTX5
L 1/7
GNDU
DSDD
XSPDIF
UNLK
XTL0
POFF
SITX
SIRX
IPTX
IPRX
XZSPDIF
XZSMUTE
XDSBMUTE
ZSP
XDAMUTE
XHDMI
XDZMUTE
XSMUTE
MAMUTE
LOPOW
L 2/7, 5/7
L 2/7, 4/7
L 2/7
L 1/7

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

L 3/7

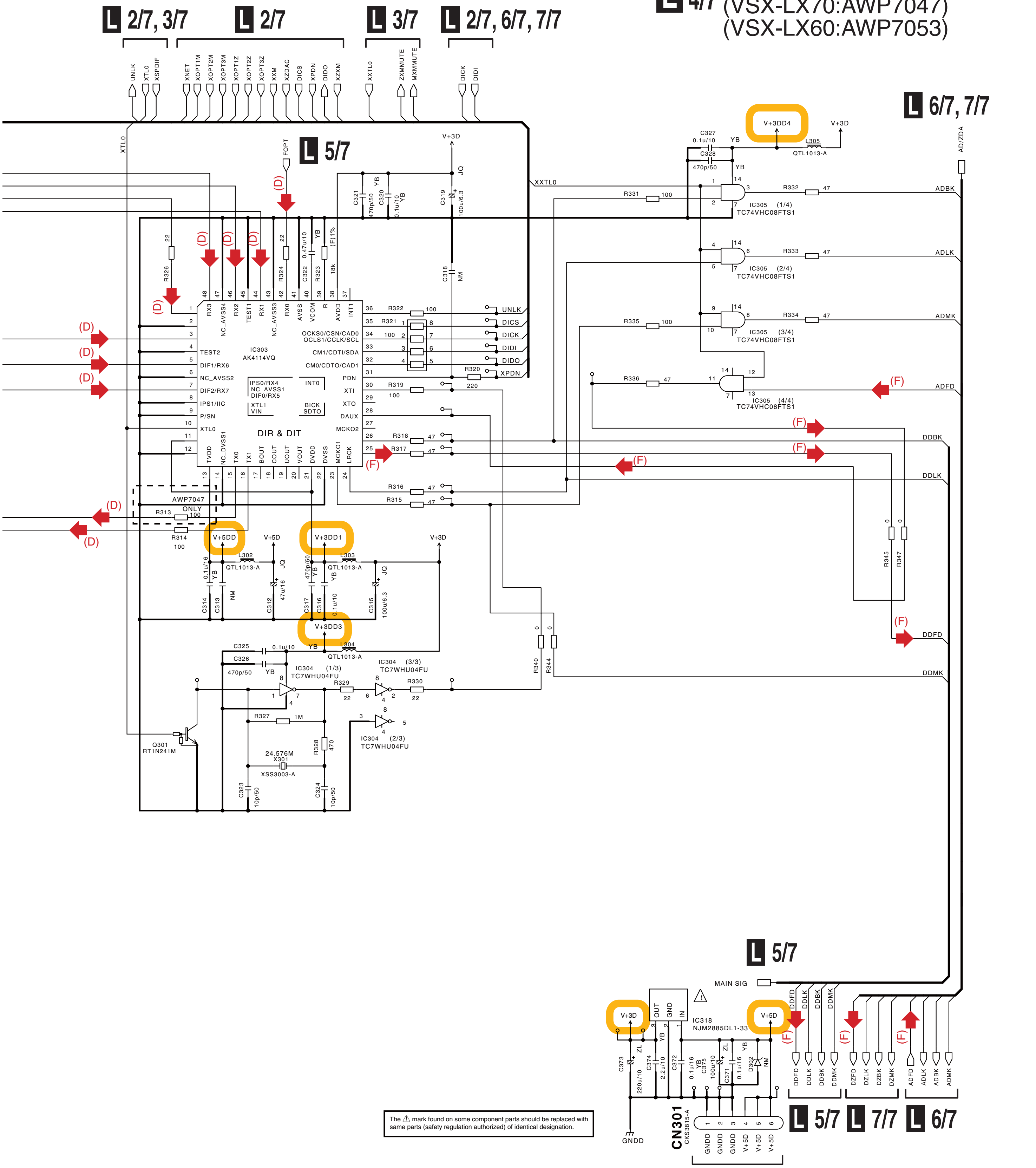
10.14 DIGITAL MOTHER ASSY (4/7)



NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

JA201
AKB7173-A
COAX IN ①
COAX IN ②
C301 0.01u/50 YB
R303 22
C302 0.01u/50 YB
R304 22
R302 75
R301 75
V+5DR
(D)
JA202
OPT IN ④
AKS7001-A
R305 100
C303 0.1u/16 YB
V+5D
L301
QTL1013-A
AT
C309 100u/16
C310 0.1u/16 YB
JA203
OPT IN ③
R306 100
C304 0.1u/16 YB
TC74VHC125FTS1
IC301 (1/4)
R309 100
XOPT3M
XOPT2M
IC301 (3/4)
TC74VHC125FTS1
C311 0.1u/16 YB
JA204
OPT IN ②
R307 100
C305 0.1u/16 YB
XOPT1M
R310 100k
IC302 (1/4)
TC74VHCT125AFTS1
XSPDIF
HDSPDIF
R300 0
IC302 (3/4)
TC74VHCT125AFTS1
R406 100
R407 100k
L 5/7
JA205
OPT IN ①
R308 100
C306 0.1u/16 YB
XOPT3Z
R311 100
IC301 (2/4)
TC74VHC125FTS1
XOPT2Z
IC301 (4/4)
TC74VHC125FTS1
XOPT1Z
AWP7047 ONLY
JA207
OPT OUT ②
AKS7002-A
C307 0.1u/16 YB
IC302 (2/4)
TC74VHCT125AFTS1
R312 100k
XNET
L 1/7 - 3/7, 5/7 - 7/7
L 2/7, 5/7
NETSPDIF
R385 0
IC302 (4/4)
TC74VHCT125AFTS1
R325 100
R470 100k
DSP UCOM
JA208
OPT OUT ①
C308 0.1u/16 YB
AKS7002-A
GNDD

L 4/7 DIGITAL MOTHER ASSY
(VSX-LX70:AWP7047)
(VSX-LX60:AWP7053)

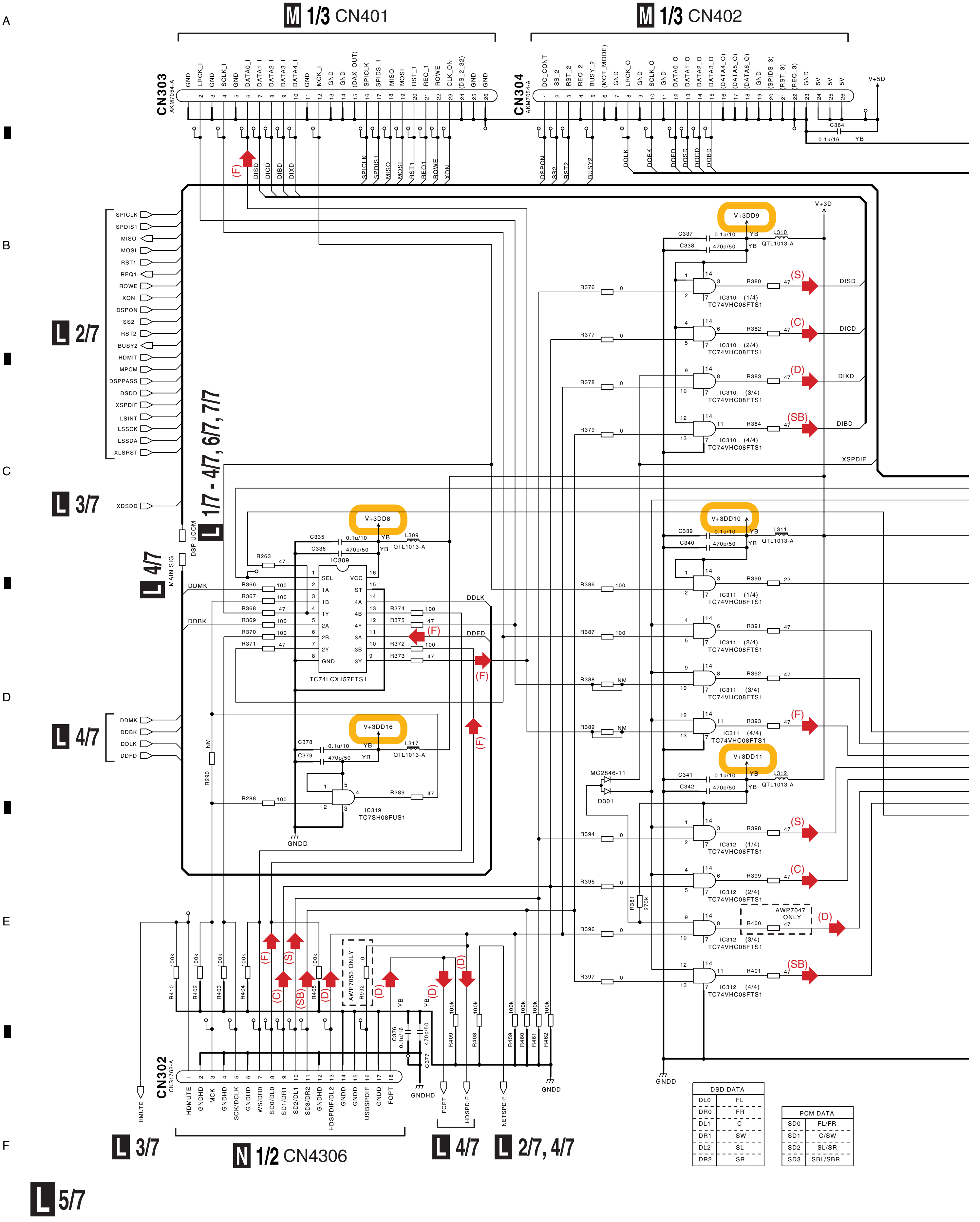

L 2/7, 3/7
L 2/7
L 3/7
L 2/7, 6/7, 7/7
UNLK
XTLO
XSPDIF
XNET
XOPT1M
XOPT2M
XOPT3M
XOPT1Z
XOPT2Z
XOPT3Z
XXM
XZDAC
DICS
XPDN
DIDO
XZXM
XXTLO
ZXMMUTE
MXMMUTE
DICK
DIDI
L 5/7
FOPT
(D)
(F)
V+3D
V+3DD4
V+3DD1
V+3DD3
V+5DD
V+5D
L 6/7, 7/7
AD/ZDA
C327 0.1u/10
C328 470p/50
YB
L305 QTL1013-A
IC305 TC74VHC08FTS1
R331 100
R332 47
R333 47
R334 47
R335 100
R336 47
ADBK
ADLK
ADMK
ADFD
DDBK
DDLK
DDFD
DDMK
IC303 AK4114VQ
DIR & DIT
TEST2
DIF1/RX6
NC_AVSS2
DIF2/RX7
IPS1/IIC
P/SN
XTLO
IPS0/RX4
NC_AVSS1
DIF0/RX5
XTL1
VIN
INT0
BICK
SDTO
OCKS0/CSN/CAD0
OCLS1/CCLK/SCL
CM1/CDTI/SDA
CM0/CDTO/CAD1
PDN
XTI
XTO
DAUX
MCKO2
RX3
NC_AVSS4
RX2
TEST1
RX1
NC_AVSS3
RX0
AVSS
VCOM
R
AVDD
INT1
TVDD
NC_DVSS1
TX0
TX1
BOUT
COUT
UOUT
VOUT
DVDD
DVSS
MCKO1
LRCK
R322 100
R321 100
R320 220
R319 100
R318 47
R317 47
R316 47
R315 47
R324 22
R326 22
R323 18k (F)1%
C322 0.47u/10
C321 470p/50
C320 0.1u/10
C319 100u/6.3
C318 NM
AWP7047 ONLY
R313 100
R314 100
L302 QTL1013-A
L303 QTL1013-A
L304 QTL1013-A
C314 0.1u/16
C313 NM
C312 47u/16
C317 470p/50
C316 0.1u/10
C315 100u/6.3
JQ
C325 0.1u/10
C326 470p/50
IC304 (1/3) TC7WHU04FU
IC304 (2/3) TC7WHU04FU
IC304 (3/3) TC7WHU04FU
R329 22
R330 22
R327 1M
R328 470
24.576M X301 XSS3003-A
C323 10p/50
C324 10p/50
Q301 RT1N241M
R340 0
R344 0
R345 0
R347 0
L 5/7
MAIN SIG
IC318 NJM2885DL1-33
OUT GND IN
V+3D
V+5D
C373 220u/10
C374 2.2u/10
C372 0.1u/16
C375 100u/10
C371 0.1u/16
D302 NM
ZL
GNDD
CN301 CKS3815-A
GNDD GNDD GNDD V+5D V+5D V+5D
DDFD DDLK DDBK DDMK
DZFD DZLK DZBK DZMK
ADFD ADLK ADBK ADMK
L 5/7
L 7/7
L 6/7
N 1/2 CN4307

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

(F) ➡: AUDIO SIGNAL ROUTE(F)

(D) ➡: AUDIO SIGNAL ROUTE(SPDIF)

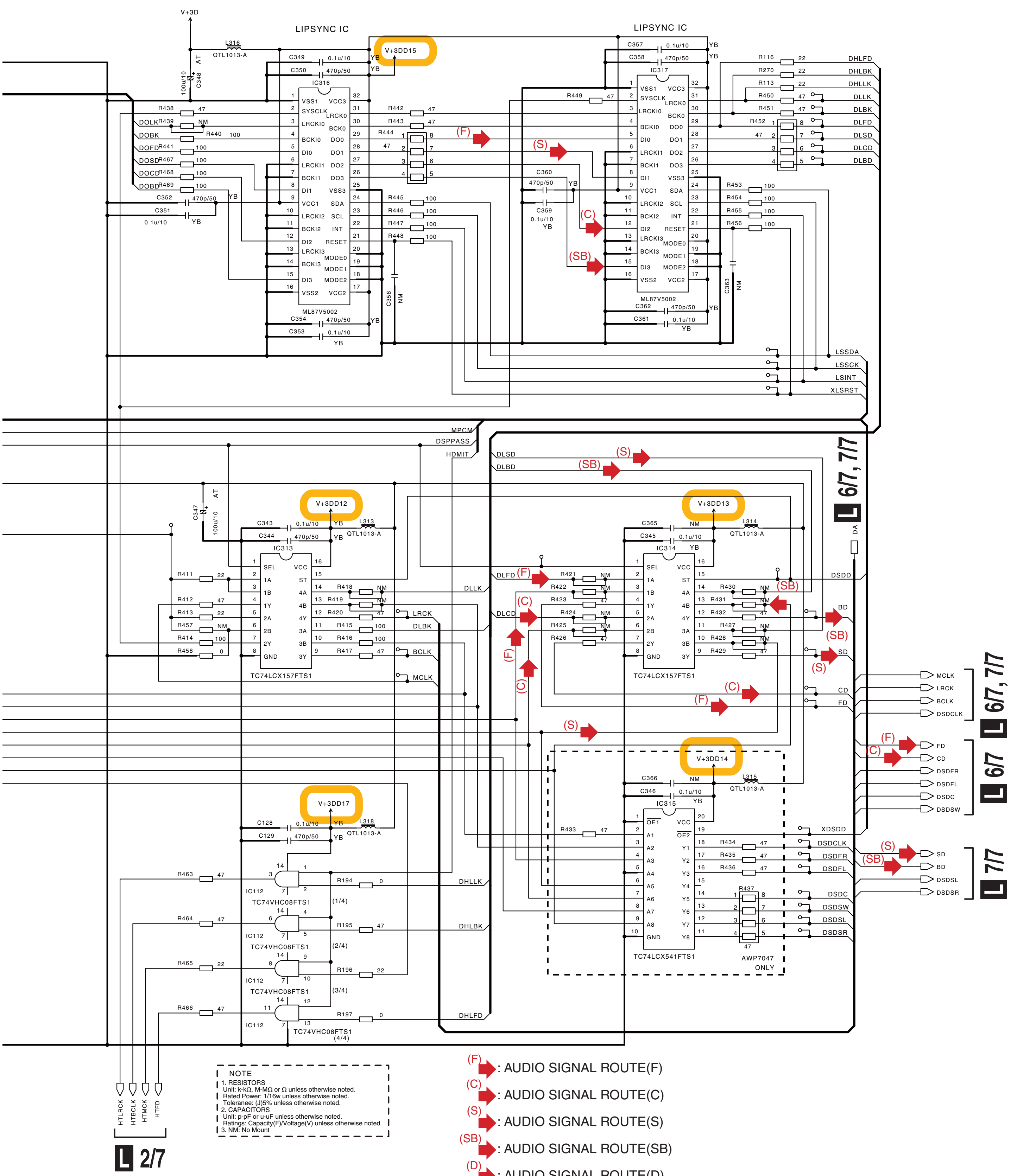
10.15 DIGITAL MOTHER ASSY (5/7)


M 1/3 CN401
M 1/3 CN402
CN303
AKM7054-A
GND
LRCK_I
GND
SCLK_I
GND
DATA0_I
DATA1_I
DATA2_I
DATA3_I
DATA4_I
GND
MCK_I
GND
GND
(DAX_OUT)
SPICLK
SPIDS_1
MISO
MOSI
RST_1
REQ_1
ROWE
CLK_ON
(DS_2_32)
GND
GND
CN304
AKM7054-A
DC_CONT
SS_2
RST_2
REQ_2
BUSY_2
(MOT_MODE)
GND
LRCK_O
GND
SCLK_O
GND
DATA0_O
DATA1_O
DATA2_O
DATA3_O
(DATA4_O)
(DATA5_O)
(DATA6_O)
GND
(SPIDS_3)
(RST_3)
(REQ_3)
GND
5V
5V
5V
V+5D
C364
0.1u/16
YB
DISD
DICD
DIBD
DIXD
SPICLK
SPDIS1
MISO
MOSI
RST1
REQ1
ROWE
XON
DSPON
SS2
RST2
BUSY2
DOLK
DOBK
DOFD
DOSD
DOCD
DOBD
L 2/7
SPICLK
SPDIS1
MISO
MOSI
RST1
REQ1
ROWE
XON
DSPON
SS2
RST2
BUSY2
HDMIT
MPCM
DSPPASS
DSDD
XSPDIF
LSINT
LSSCK
LSSDA
XLSRST
L 3/7
XDSDD
L 1/7 - 4/7, 6/7, 7/7
DSP UCOM
L 4/7
MAIN SIG
L 4/7
DDMK
DDBK
DDLK
DDFD
V+3D
V+3DD9
C337
0.1u/10
C338
470p/50
L310
QTL1013-A
R376
R377
R378
R379
R380
R382
R383
R384
IC310 (1/4)
IC310 (2/4)
IC310 (3/4)
IC310 (4/4)
TC74VHC08FTS1
(S)
(C)
(D)
(SB)
(F)
DISD
DICD
DIXD
DIBD
XSPDIF
V+3DD8
C335
C336
L309
QTL1013-A
R263
IC309
SEL
VCC
1A
ST
1B
4A
1Y
4B
2A
4Y
2B
3A
2Y
3B
GND
3Y
TC74LCX157FTS1
R366
R367
R368
R369
R370
R371
R374
R375
R372
R373
DDMK
DDBK
DDLK
DDFD
V+3DD10
C339
C340
L311
R386
R387
R388
R389
NM
R390
R391
R392
R393
IC311 (1/4)
IC311 (2/4)
IC311 (3/4)
IC311 (4/4)
TC74VHC08FTS1
V+3DD16
C378
C379
L317
R290
R288
R289
IC319
TC7SH08FUS1
GNDD
MC2846-11
D301
V+3DD11
C341
C342
L312
R394
R395
R396
R397
R398
R399
R400
R401
R381
270k
AWP7047 ONLY
IC312 (1/4)
IC312 (2/4)
IC312 (3/4)
IC312 (4/4)
TC74VHC08FTS1
AWP7053 ONLY
R992
R410
R402
R403
R404
R405
100k
C376
0.1u/16
C377
470p/50
R409
R408
R459
R460
R461
R462
GNDH
GNDD
GNDD
CN302
CKS1762-A
HDMUTE
GNDHD
MCK
GNDHD
SCK/DCLK
GNDHD
WS/DR0
SD0/DL0
SD1/DR1
SD2/DL1
SD3/DR2
GNDHD
HDSPDIF/DL2
GNDD
GNDD
USBSPDIF
GNDD
FOPT
HMUTE
FOPT
HDSPDIF
NETSPDIF
L 3/7
N 1/2 CN4306
L 4/7
L 2/7, 4/7
L 5/7

DSD DATA	
DL0	FL
DR0	FR
DL1	C
DR1	SW
DL2	SL
DR2	SR

PCM DATA	
SD0	FL/FR
SD1	C/SW
SD2	SL/SR
SD3	SBL/SBR

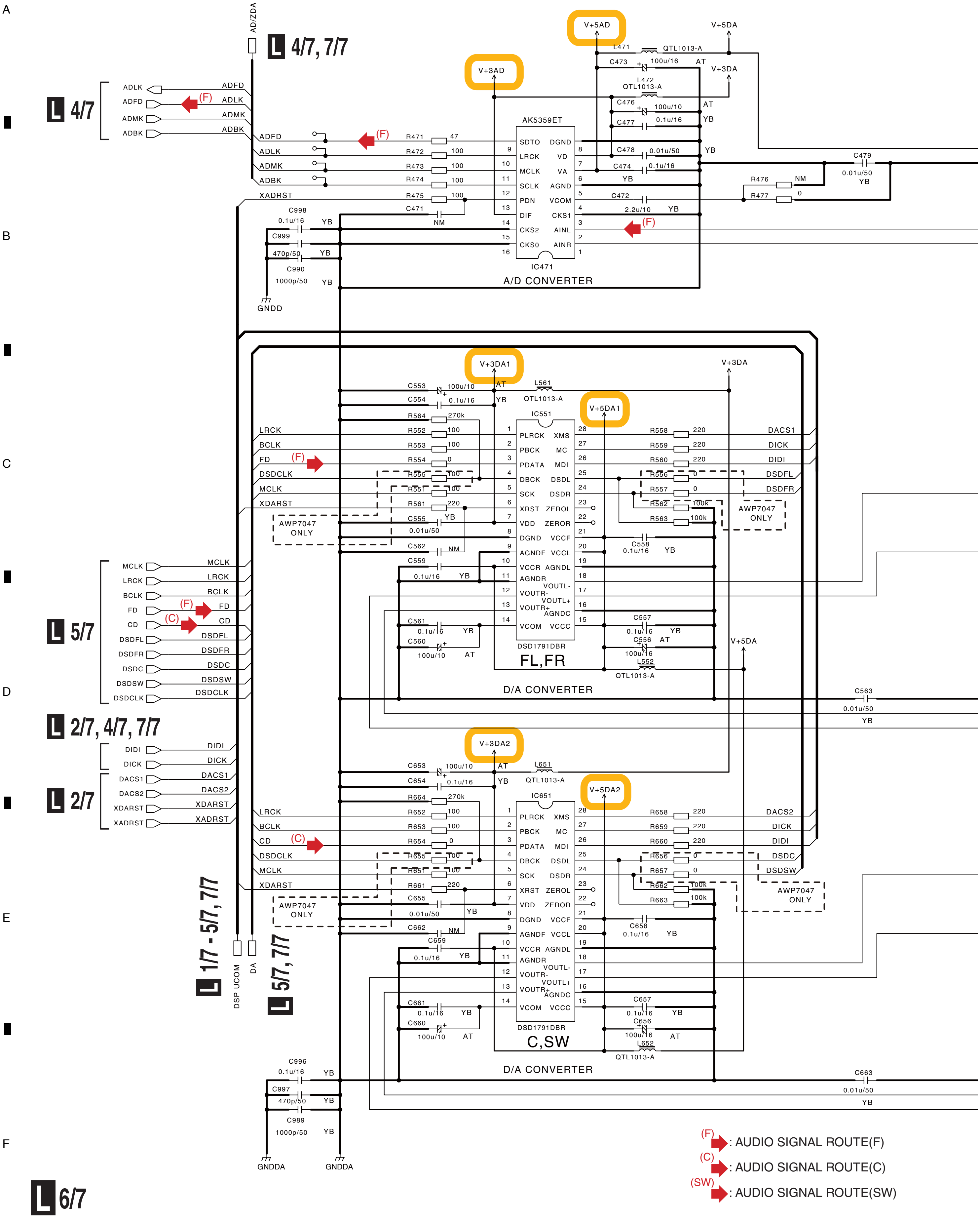
L 5/7 DIGITAL MOTHER ASSY
(VSX-LX70:AWP7047)
(VSX-LX60:AWP7053)


V+3D
LIPSYNC IC
IC316
ML87V5002
LIPSYNC IC
IC317
ML87V5002
V+3DD15
V+3DD12
V+3DD13
V+3DD14
V+3DD17
L316 QTL1013-A
L313 QTL1013-A
L314 QTL1013-A
L315 QTL1013-A
L318 QTL1013-A
VSS1 VCC3 SYSCLK LRCK0 LRCKI0 BCK0 BCKI0 DO0 DI0 DO1 LRCKI1 DO2 BCKI1 DO3 DI1 VSS3 VCC1 SDA LRCKI2 SCL BCKI2 INT DI2 RESET LRCKI3 MODE0 BCKI3 MODE1 DI3 MODE2 VSS2 VCC2
DOLK DOBK DOFD DOSD DOCD DOBD
DHLFD DHLBK DHLLK DLLK DLBK DLFD DLSD DLCD DLBD
LSSDA LSSCK LSINT XLSRST
MPCM DSPPASS HDMIT
DLSD DLBD
IC313 TC74LCX157FTS1
IC314 TC74LCX157FTS1
SEL VCC 1A ST 1B 4A 1Y 4B 2A 4Y 2B 3A 2Y 3B GND 3Y
DLLK LRCK DLBK BCLK MCLK
DLFD DLCD DSDD BD SD CD FD
IC315 TC74LCX541FTS1
OE1 VCC A1 OE2 A2 Y1 A3 Y2 A4 Y3 A5 Y4 A6 Y5 A7 Y6 A8 Y7 GND Y8
XDSDD DSDCLK DSDFR DSDFL DSDC DSDSW DSDSL DSDSR
R437 AWP7047 ONLY
IC112 TC74VHC08FTS1 (1/4) (2/4) (3/4) (4/4)
DHLLK DHLBK DHLFD
MCLK LRCK BCLK DSDCLK
FD CD DSDFR DSDFL DSDC DSDSW
SD BD DSDSL DSDSR
HTLRCK HTBCLK HTMCK HTFD
L 2/7
L 6/7, 7/7
L 6/7
L 7/7
(F) (C) (S) (SB)

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

(F) : AUDIO SIGNAL ROUTE(F)
(C) : AUDIO SIGNAL ROUTE(C)
(S) : AUDIO SIGNAL ROUTE(S)
(SB) : AUDIO SIGNAL ROUTE(SB)
(D) : AUDIO SIGNAL ROUTE(D)

10.16 DIGITAL MOTHER ASSY (6/7)

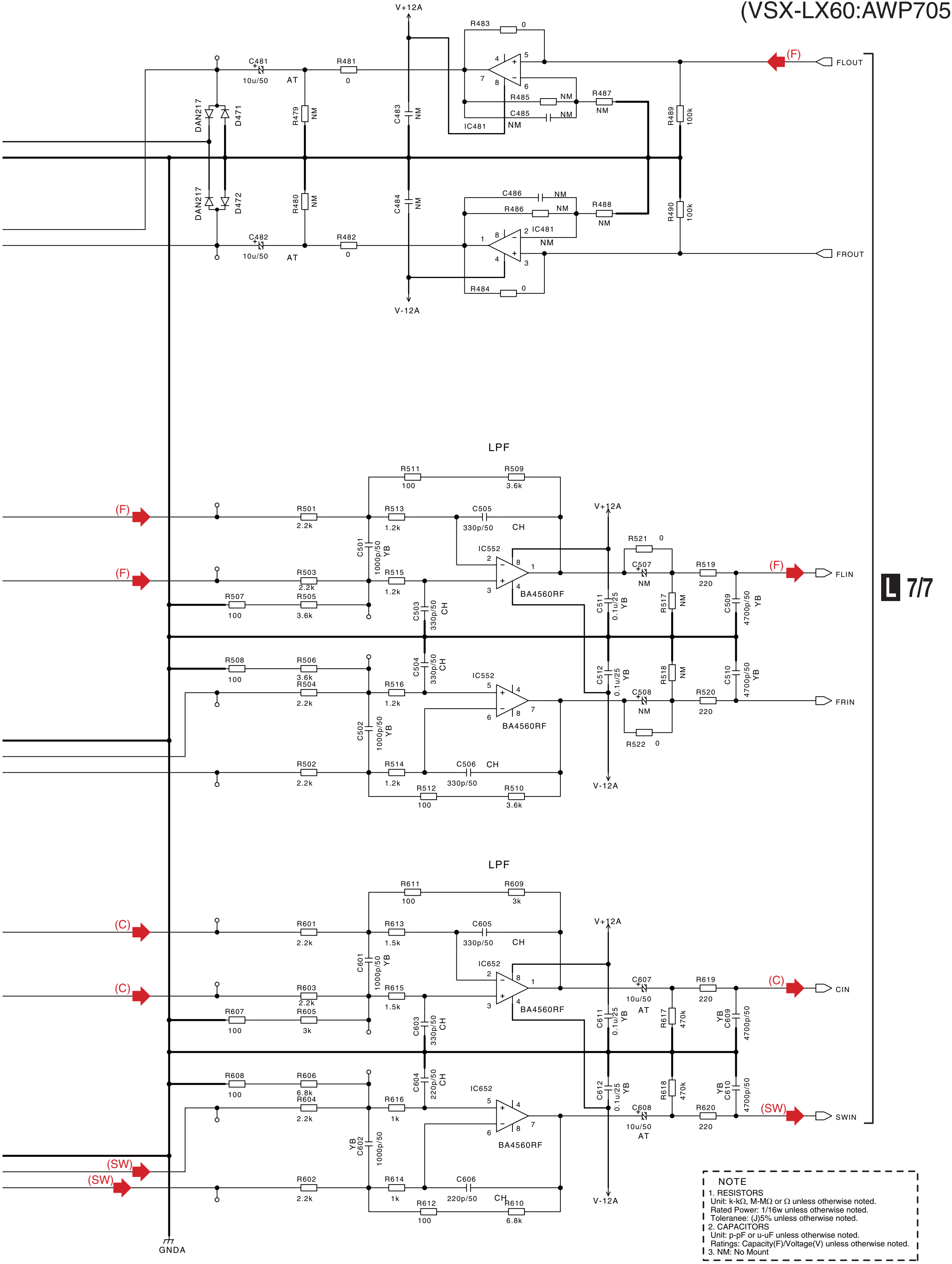

AD/ZDA
4/7, 7/7
4/7
ADLK
ADFD
ADMK
ADBK
ADFD
ADLK
ADMK
ADBK
(F)
XADRST
V+3AD
V+5AD
V+5DA
V+3DA
L471 QTL1013-A
C473 100u/16 AT
L472 QTL1013-A
C476 100u/10 AT
C477 0.1u/16 YB
C478 0.01u/50 YB
C474 0.1u/16 YB
C472 2.2u/10 YB
C479 0.01u/50 YB
R476 NM
R477 0
R471 47
R472 100
R473 100
R474 100
R475 100
C471 NM
C998 0.1u/16 YB
C999 470p/50 YB
C990 1000p/50 YB
GNDD
AK5359ET
SDTO DGND
LRCK VD
MCLK VA
SCLK AGND
PDN VCOM
DIF CKS1
CKS2 AINL
CKS0 AINR
IC471
A/D CONVERTER
V+3DA1
V+5DA1
C553 100u/10 AT
C554 0.1u/16 YB
L561 QTL1013-A
R564 270k
IC551
LRCK R552 100
BCLK R553 100
FD R554 0
DSDCLK R555 100
MCLK R551 100
XDARST R561 220
C555 YB 0.01u/50
C562 NM
C559 0.1u/16 YB
C561 0.1u/16 YB
C560 100u/10 AT
AWP7047 ONLY
PLRCK XMS
PBCK MC
PDATA MDI
DBCK DSDL
SCK DSDR
XRST ZEROL
VDD ZEROR
DGND VCCF
AGNDF VCCL
VCCR AGNDL
AGNDR
VOUTL-
VOUTR-
VOUTL+
VOUTR+
AGNDC
VCOM VCCC
DSD1791DBR
FL,FR
D/A CONVERTER
R558 220 DACS1
R559 220 DICK
R560 220 DIDI
R556 0 DSDFL
R557 0 DSDFR
R562 100k
R563 100k
C558 0.1u/16 YB
C557 0.1u/16 YB
C556 100u/16 AT
L552 QTL1013-A
C563 0.01u/50 YB
5/7
MCLK
LRCK
BCLK
FD
CD
DSDFL
DSDFR
DSDC
DSDSW
DSDCLK
(F)
(C)
2/7, 4/7, 7/7
DIDI
DICK
2/7
DACS1
DACS2
XDARST
XADRST
V+3DA2
V+5DA2
C653 100u/10 AT
C654 0.1u/16 YB
L651 QTL1013-A
R664 270k
IC651
LRCK R652 100
BCLK R653 100
CD R654 0
DSDCLK R655 100
MCLK R651 100
XDARST R661 220
C655 0.01u/50 YB
C662 NM
C659 0.1u/16 YB
C661 0.1u/16 YB
C660 100u/10 AT
R658 220 DACS2
R659 220 DICK
R660 220 DIDI
R656 0 DSDC
R657 0 DSDSW
R662 100k
R663 100k
C658 0.1u/16 YB
C657 0.1u/16 YB
C656 100u/16 AT
L652 QTL1013-A
DSD1791DBR
C,SW
D/A CONVERTER
C663 0.01u/50 YB
C996 0.1u/16 YB
C997 470p/50 YB
C989 1000p/50 YB
GNDDA
GNDDA
1/7 - 5/7, 7/7
5/7, 7/7
DSP UCOM
DA
6/7

(F): AUDIO SIGNAL ROUTE(F)

(C): AUDIO SIGNAL ROUTE(C)

(SW): AUDIO SIGNAL ROUTE(SW)

L 6/7 DIGITAL MOTHER ASSY (VSX-LX70:AWP7047) (VSX-LX60:AWP7053)

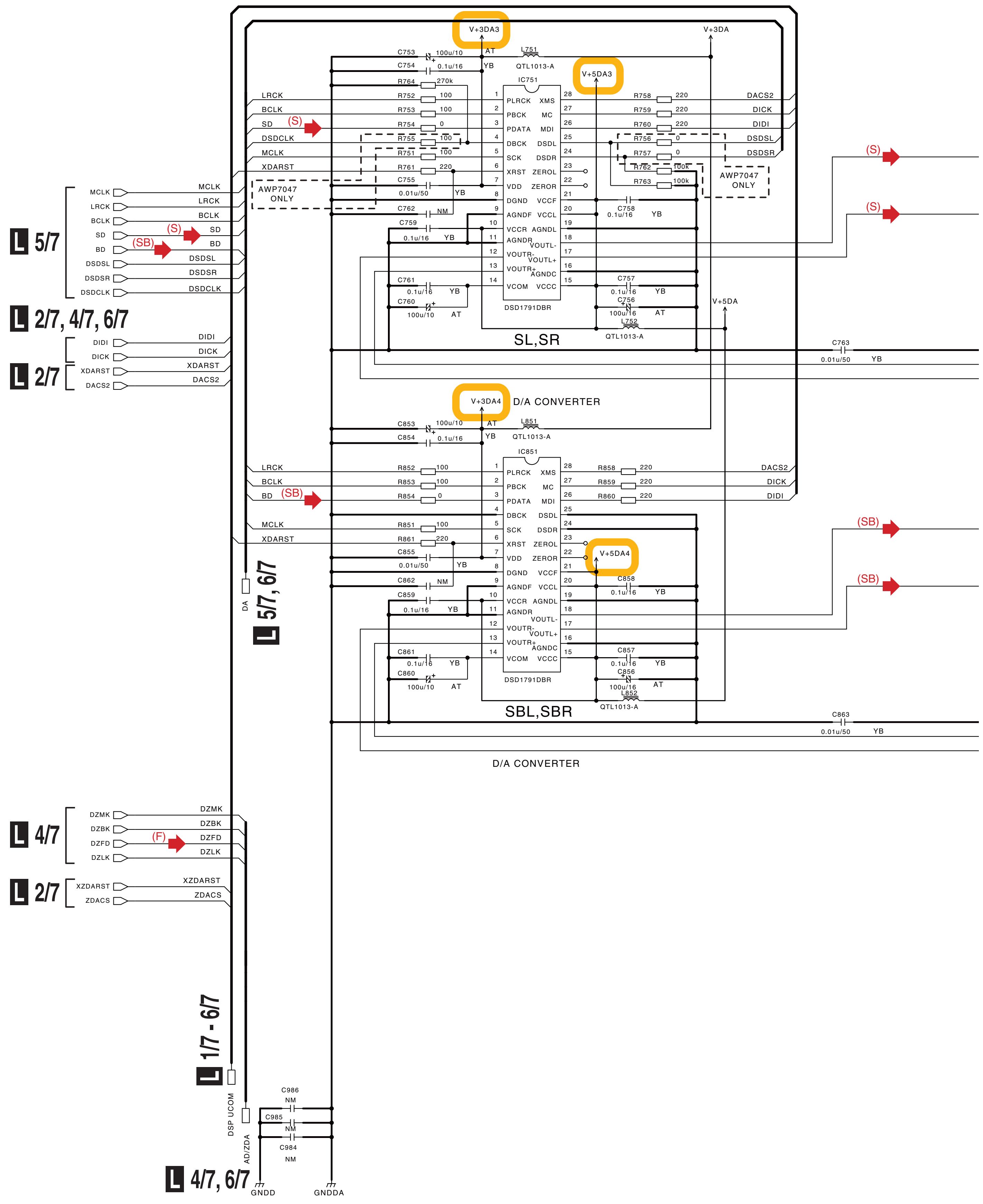


V+12A
R483 0
C481 10u/50 AT
R481 0
IC481 NM
R485 NM
C485 NM
R487 NM
DAN217
D471
R479 NM
C483 NM
R489 100k
(F)
FLOUT
DAN217
D472
R480 NM
C484 NM
C486 NM
R486 NM
R488 NM
R490 100k
C482 10u/50 AT
R482 0
FROUT
R484 0
V-12A
LPF
R511 100
R509 3.6k
(F)
R501 2.2k
R513 1.2k
C505 330p/50 CH
V+12A
R521 0
C501 1000p/50 YB
IC552
R503 2.2k
R515 1.2k
C507 NM
R519 220
FLIN
BA4560RF
R507 100
R505 3.6k
C503 330p/50 CH
C511 0.1u/25 YB
R517 NM
C509 4700p/50 YB
L 7/7
R508 100
R506 3.6k
R504 2.2k
C504 330p/50 CH
R516 1.2k
C512 0.1u/25 YB
R518 NM
C510 4700p/50 YB
C508 NM
R520 220
FRIN
C502 1000p/50 YB
R522 0
R502 2.2k
R514 1.2k
C506 330p/50 CH
R512 100
R510 3.6k
V-12A
LPF
R611 100
R609 3k
(C)
R601 2.2k
R613 1.5k
C605 330p/50 CH
V+12A
C601 1000p/50 YB
IC652
R603 2.2k
R615 1.5k
C607 10u/50 AT
R619 220
CIN
R607 100
R605 3k
C603 330p/50 CH
C611 0.1u/25 YB
R617 470k
C609 4700p/50 YB
R608 100
R606 6.8k
R604 2.2k
C604 220p/50 CH
R616 1k
C612 0.1u/25 YB
R618 470k
C610 4700p/50 YB
C608 10u/50 AT
R620 220
(SW)
SWIN
C602 1000p/50 YB
R602 2.2k
R614 1k
C606 220p/50 CH
R612 100
R610 6.8k
V-12A
GNDA
A B C D E F

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

L 6/7

10.17 DIGITAL MOTHER ASSY (7/7)

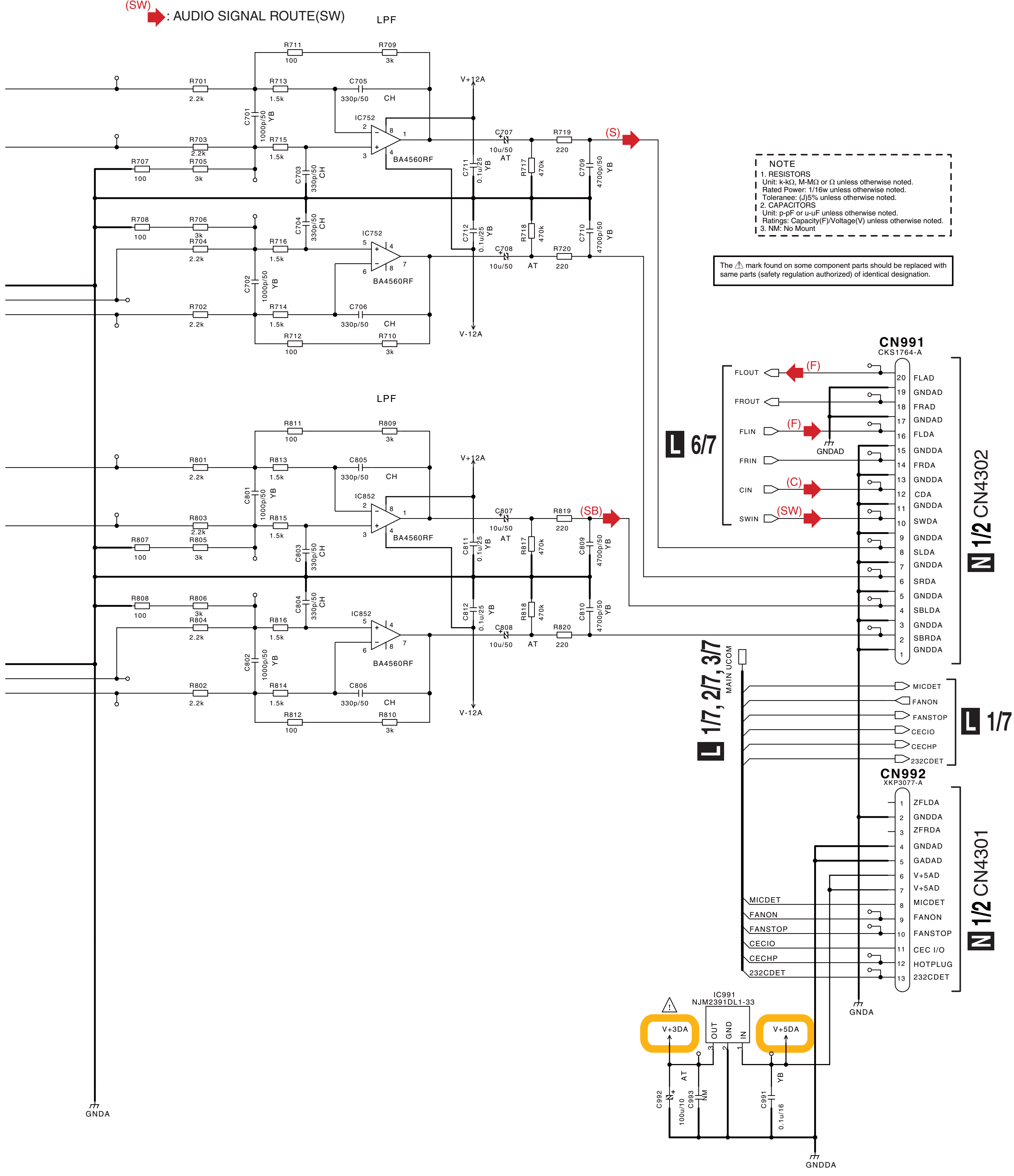


V+3DA3
V+3DA
V+5DA3
C753 100u/10 AT
C754 0.1u/16 YB
L751 QTL1013-A
IC751
R764 270k
LRCK R752 100
BCLK R753 100
SD (S) R754 0
DSDCLK R755 100
MCLK R751 100
XDARST R761 220
C755 0.01u/50 YB
C762 NM
C759 0.1u/16 YB
C761 0.1u/16 YB
C760 100u/10 AT
AWP7047 ONLY
PLRCK XMS PBCK MC PDATA MDI DBCK DSDL SCK DSDR XRST ZEROL VDD ZEROR DGND VCCF AGNDF VCCL VCCR AGNDL AGNDR VOUTL- VOUTR- VOUTL+ VOUTR+ AGNDC VCOM VCCC
DSD1791DBR
R758 220 DACS2
R759 220 DICK
R760 220 DIDI
R756 0 DSDSL
R757 0 DSDSR
R762 100k
R763 100k
C758 0.1u/16 YB
C757 0.1u/16 YB
C756 100u/16 AT
L752 QTL1013-A
V+5DA
SL,SR
C763 0.01u/50 YB
(S)
(S)
L 5/7
MCLK LRCK BCLK SD BD DSDSL DSDSR DSDCLK
(S) (SB)
L 2/7, 4/7, 6/7
DIDI DICK
L 2/7
XDARST DACS2
V+3DA4
D/A CONVERTER
C853 100u/10 AT
C854 0.1u/16 YB
L851 QTL1013-A
IC851
LRCK R852 100
BCLK R853 100
BD (SB) R854 0
MCLK R851 100
XDARST R861 220
C855 0.01u/50 YB
C862 NM
C859 0.1u/16 YB
C861 0.1u/16 YB
C860 100u/10 AT
R858 220 DACS2
R859 220 DICK
R860 220 DIDI
V+5DA4
C858 0.1u/16 YB
C857 0.1u/16 YB
C856 100u/16 AT
L852 QTL1013-A
DSD1791DBR
SBL,SBR
C863 0.01u/50 YB
(SB)
(SB)
D/A CONVERTER
DA
L 5/7, 6/7
L 4/7
DZMK DZBK DZFD DZLK
(F)
L 2/7
XZDARST ZDACS
L 1/7 - 6/7
DSP UCOM
AD/ZDA
C986 NM
C985 NM
C984 NM
L 4/7, 6/7
GNDD GNDDA

L 7/7

L 7/7 DIGITAL MOTHER ASSY
(VSX-LX70:AWP7047)
(VSX-LX60:AWP7053)

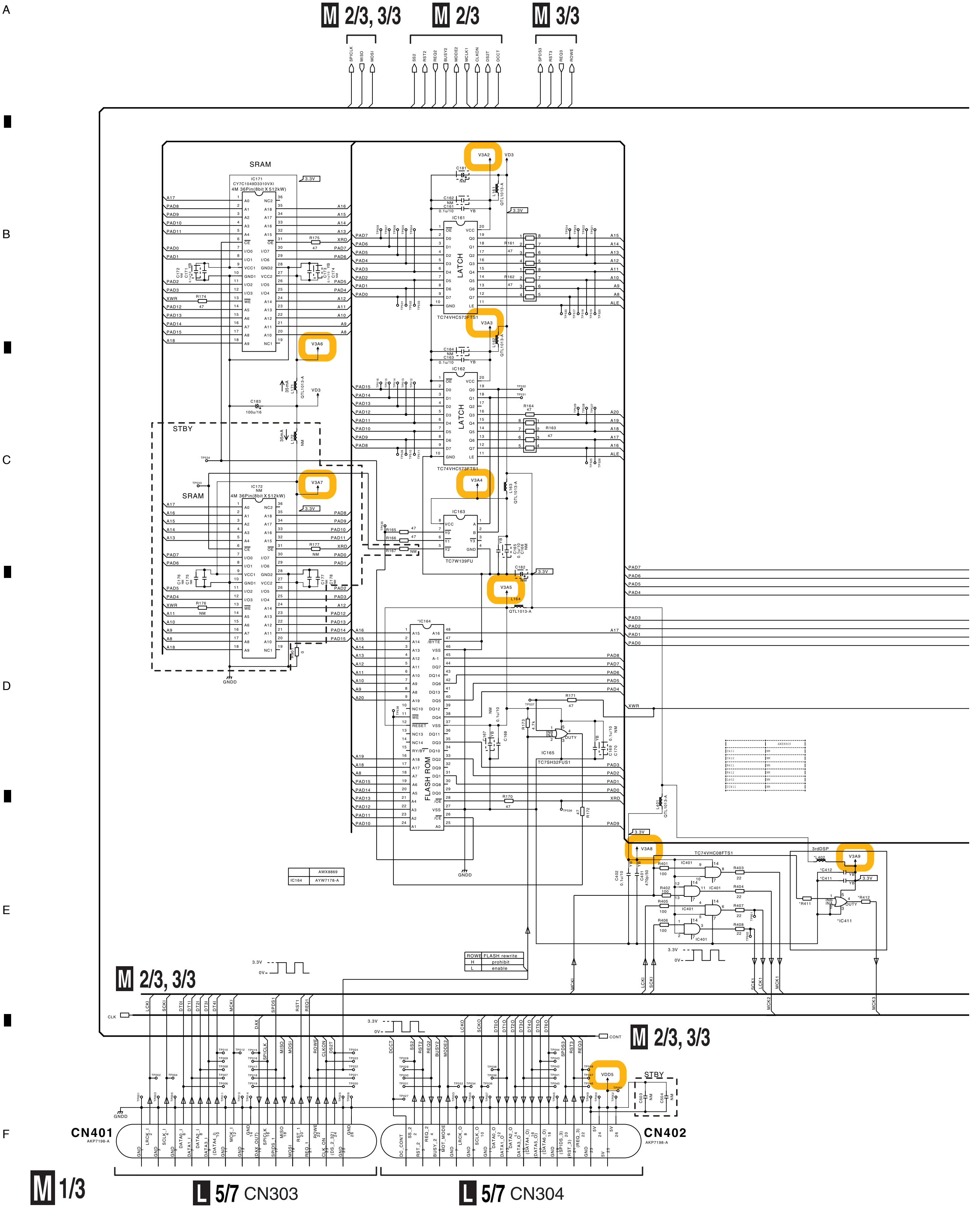
(F): AUDIO SIGNAL ROUTE(F)
(S): AUDIO SIGNAL ROUTE(S)
(SB): AUDIO SIGNAL ROUTE(SB)
(SW): AUDIO SIGNAL ROUTE(SW)


LPF
R711 100
R709 3k
R701 2.2k
R713 1.5k
C705 330p/50 CH
V+12A
C701 1000p/50 YB
IC752
BA4560RF
R703 2.2k
R715 1.5k
R707 100
R705 3k
C703 330p/50 CH
C707 10u/50 AT
R719 220
(S)
C711 0.1u/25 YB
R717 470k
C709 4700p/50 YB
R708 100
R706 3k
R704 2.2k
C704 330p/50 CH
R716 1.5k
C712 0.1u/25 YB
R718 470k
C710 4700p/50 YB
C708 10u/50 AT
R720 220
C702 1000p/50 YB
R702 2.2k
R714 1.5k
C706 330p/50 CH
R712 100
R710 3k
V-12A
LPF
R811 100
R809 3k
R801 2.2k
R813 1.5k
C805 330p/50 CH
V+12A
C801 1000p/50 YB
IC852
BA4560RF
R803 2.2k
R815 1.5k
R807 100
R805 3k
C803 330p/50 CH
C807 10u/50 AT
R819 220
(SB)
C811 0.1u/25 YB
R817 470k
C809 4700p/50 YB
R808 100
R806 3k
R804 2.2k
C804 330p/50 CH
R816 1.5k
C812 0.1u/25 YB
R818 470k
C810 4700p/50 YB
C808 10u/50 AT
R820 220
C802 1000p/50 YB
R802 2.2k
R814 1.5k
C806 330p/50 CH
R812 100
R810 3k
V-12A
GNDA
CN991
CKS1764-A
FLOUT
(F)
FROUT
FLIN
(F)
FRIN
CIN
(C)
SWIN
(SW)
GNDAD
L 6/7
20 FLAD
19 GNDAD
18 FRAD
17 GNDAD
16 FLDA
15 GNDDA
14 FRDA
13 GNDDA
12 CDA
11 GNDDA
10 SWDA
9 GNDDA
8 SLDA
7 GNDDA
6 SRDA
5 GNDDA
4 SBLDA
3 GNDDA
2 SBRDA
1 GNDDA
N 1/2 CN4302
L 1/7, 2/7, 3/7
MAIN UCOM
MICDET
FANON
FANSTOP
CECIO
CECHP
232CDET
L 1/7
CN992
XKP3077-A
1 ZFLDA
2 GNDDA
3 ZFRDA
4 GNDAD
5 GADAD
6 V+5AD
7 V+5AD
8 MICDET
9 FANON
10 FANSTOP
11 CEC I/O
12 HOTPLUG
13 232CDET
N 1/2 CN4301
MICDET
FANON
FANSTOP
CECIO
CECHP
232CDET
GNDA
IC991
NJM2391DL1-33
OUT GND IN
V+3DA
V+5DA
C992 100u/10 AT
C993 NM
C991 0.1u/16 YB
GNDDA

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

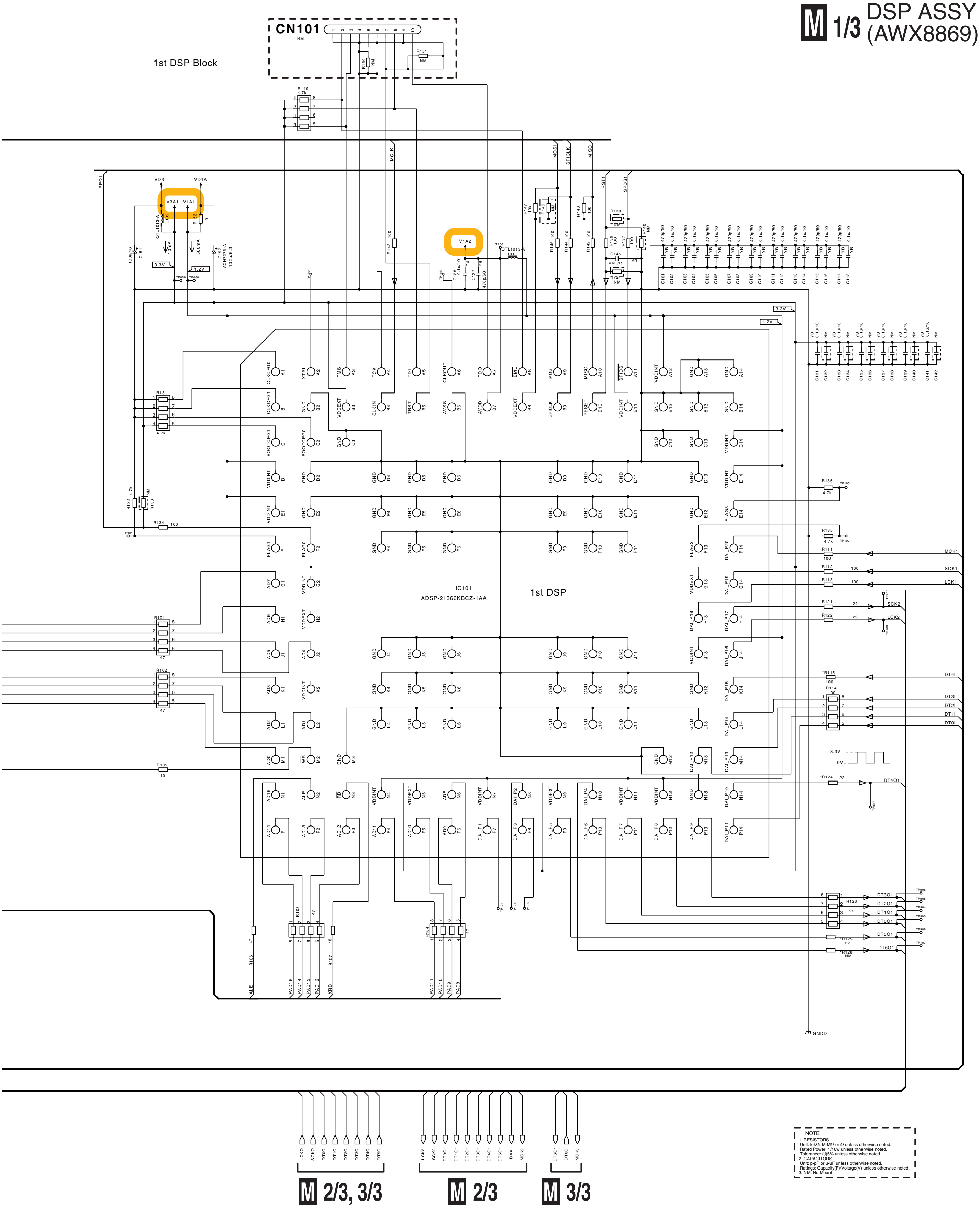
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

10.18 DSP ASSY (1/3)



M 2/3, 3/3
M 2/3
M 3/3
SPICLK
MISO
MOSI
SS2
RST2
REQ2
BUSY2
MODE2
MCLK1
CLKON
DS2T
DCCT
SPDS3
RST3
REQ3
ROWE
SRAM
IC171
CY7C1049D3310VXI
4M 36Pin(8bit X 512kW)
3.3V
R175
R174
V3A6
V3A2
VD3
C181
L161
QTL1013-A
C162
C161
0.1u/10
IC161
LATCH
TC74VHC573FTS1
R161
R162
V3A3
C164
C163
IC162
R164
R163
TC74VHC573FTS1
C183
100u/16
L171
L172
35mA
STBY
V3A7
IC172
NM
SRAM
4M 36Pin(8bit X 512kW)
R177
R176
V3A4
L163
IC163
TC7W139FU
R165
R166
R167
C165
C166
C182
V3A5
L164
QTL1013-A
*IC164
FLASH ROM
GNDD
AWX8869
IC164
AYW7178-A
R171
R173
IC165
TC7SH32FUS1
C167
C168
C169
C170
R170
R172
L401
QTL1013-A
V3A8
C402
0.1u/10
C401
470p/50
TC74VHC08FTS1
IC401
R401
R402
R405
R406
R403
R404
R407
R408
3rdDSP
*L402
V3A9
*C412
*C411
*R411
*R412
*IC411
3.3V
0V
ROWE
FLASH rewrite
H
prohibit
L
enable
M 2/3, 3/3
CLK
LCKI
SCKI
DT0I
DT1I
DT2I
DT3I
DT4I
MCKI
SPDS1
RST1
REQ1
DAX
MCK1
MCK2
MCK3
SCKI
LCKO
SCKO
DT0O
DT1O
DT2O
DT3O
DT4O
DT5O
DT6O
CONT
M 2/3, 3/3
VDD5
STBY
C503
C504
CN401
AKP7198-A
CN402
AKP7198-A
M 1/3
L 5/7 CN303
L 5/7 CN304
1
2
3
4
A
B
C
D
E
F

M 1/3 DSP ASSY (AWX8869)


CN101
NM
1st DSP Block
R149 4.7k
R150 NM
R151 NM
MCLK1
MOSI
SPICLK
MISO
RST1
SPDS1
REG1
VD3
VD1A
V3A1
V1A1
V1A2
L102
QTL1013-A
R102 0
10mA
560mA
C151 100u/16
C152 ACH7275-A 100u/6.3
3.3V
1.2V
TP059
TP060
R148 100
TP061
QTL1013-A L101
C128 0.1u/10
C127 470p/50
YB
R147 10k
R145 NM
R143 10k
R146 100
R144 100
R142 100
R138 NM
R139 100
R137 100
R140 NM
C145 0.01u/25
R141 NM
C101
C102
C103
C104
C105
C106
C107
C108
C109
C110
C111
C112
C113
C114
C115
C116
C117
C118
470p/50
0.1u/10
C131
C132
C133
C134
C135
C136
C137
C138
C139
C140
C141
C142
R131 4.7k
R132 4.7k
R133 NM
R134 100
TP101
R101 47
R102 47
R105 10
IC101
ADSP-21366KBCZ-1AA
1st DSP
CLKCFG0
XTAL
TMS
TCK
TDI
CLKOUT
TDO
EMU
MOSI
MISO
SPIDS
VDDINT
GND
CLKCFG1
VDDEXT
CLKIN
TRST
AVSS
AVDD
SPICLK
RESET
BOOTCFG1
BOOTCFG0
FLAG1
FLAG0
FLAG2
FLAG3
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
AD9
AD10
AD11
AD12
AD13
AD14
AD15
WR
RD
ALE
DAI_P1
DAI_P2
DAI_P3
DAI_P4
DAI_P5
DAI_P6
DAI_P7
DAI_P8
DAI_P9
DAI_P10
DAI_P11
DAI_P12
DAI_P13
DAI_P14
DAI_P15
DAI_P16
DAI_P17
DAI_P18
DAI_P19
DAI_P20
R136 4.7k
TP103
R135 4.7k
TP102
R111 100
R112 100
R113 100
R121 22
R122 22
MCK1
SCK1
LCK1
SCK2
LCK2
*R115 100
R114 100
DT4I
DT3I
DT2I
DT1I
DT0I
3.3V
0V
*R124 22
DT4O1
R123 22
DT3O1
DT2O1
DT1O1
DT0O1
DT5O1
DT6O1
*R125 22
*R126 NM
GNDD
R103 47
R104 47
R106 47
R107 10
PAD15
PAD14
PAD13
PAD12
XRD
PAD11
PAD10
PAD9
PAD8
ALE
LCKO
SCKO
DT0O
DT1O
DT2O
DT3O
DT4O
DT5O
LCK2
SCK2
DT0O1
DT1O1
DT2O1
DT3O1
DT4O1
DT5O1
DAX
MCK2
DT6O1
DT6O
MCK3
M 2/3, 3/3
M 2/3
M 3/3

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

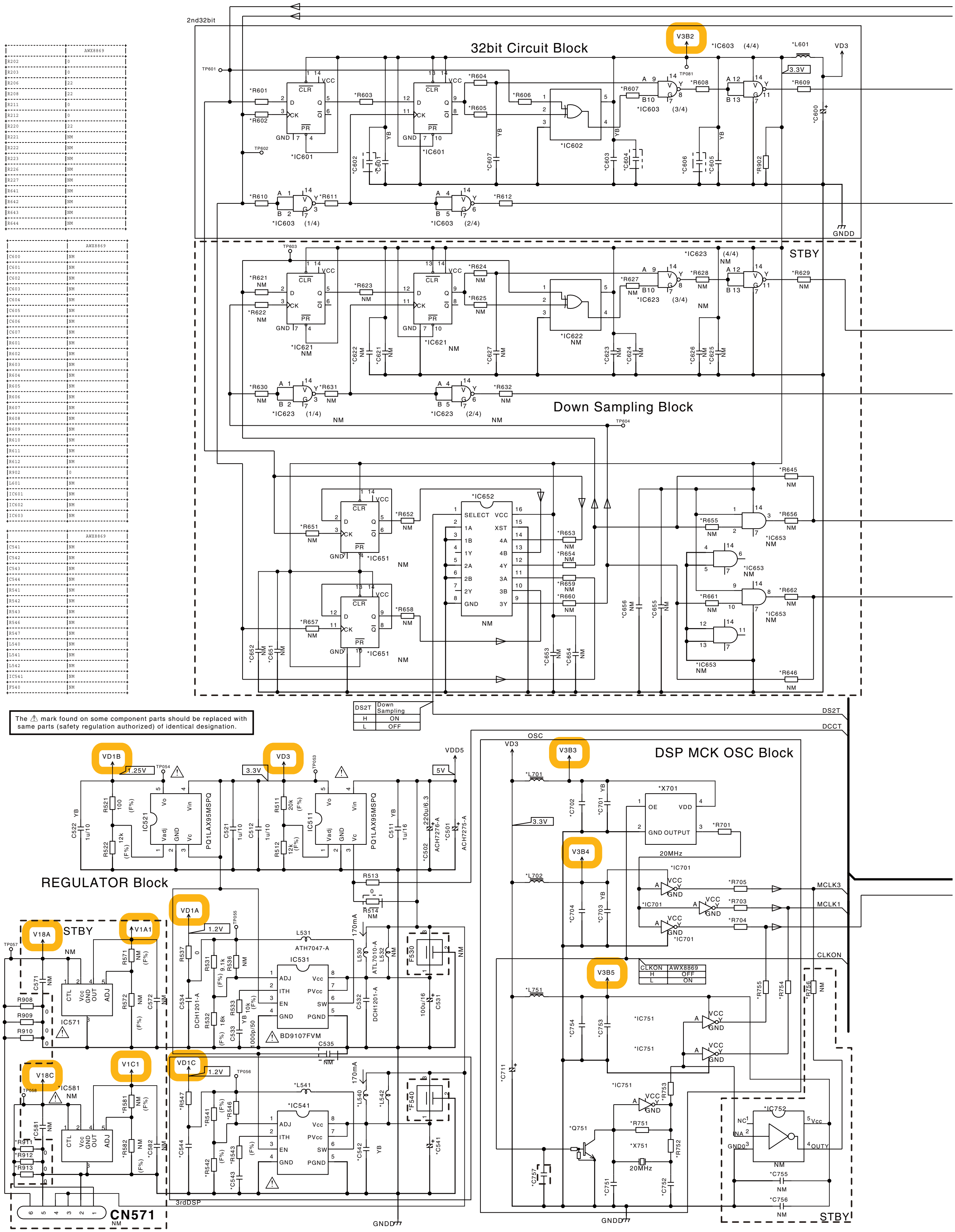
10.19 DSP ASSY (2/3)

	AWX8869
R202	0
R203	0
R206	22
R208	22
R211	0
R212	0
R220	22
R221	NM
R222	NM
R223	NM
R226	NM
R227	NM
R641	NM
R642	NM
R643	NM
R644	NM

	AWX8869
C600	NM
C601	NM
C602	NM
C603	NM
C604	NM
C605	NM
C606	NM
C607	NM
R601	NM
R602	NM
R603	NM
R604	NM
R605	NM
R606	NM
R607	NM
R608	NM
R609	NM
R610	NM
R611	NM
R612	NM
R902	0
L601	NM
IC601	NM
IC602	NM
IC603	NM

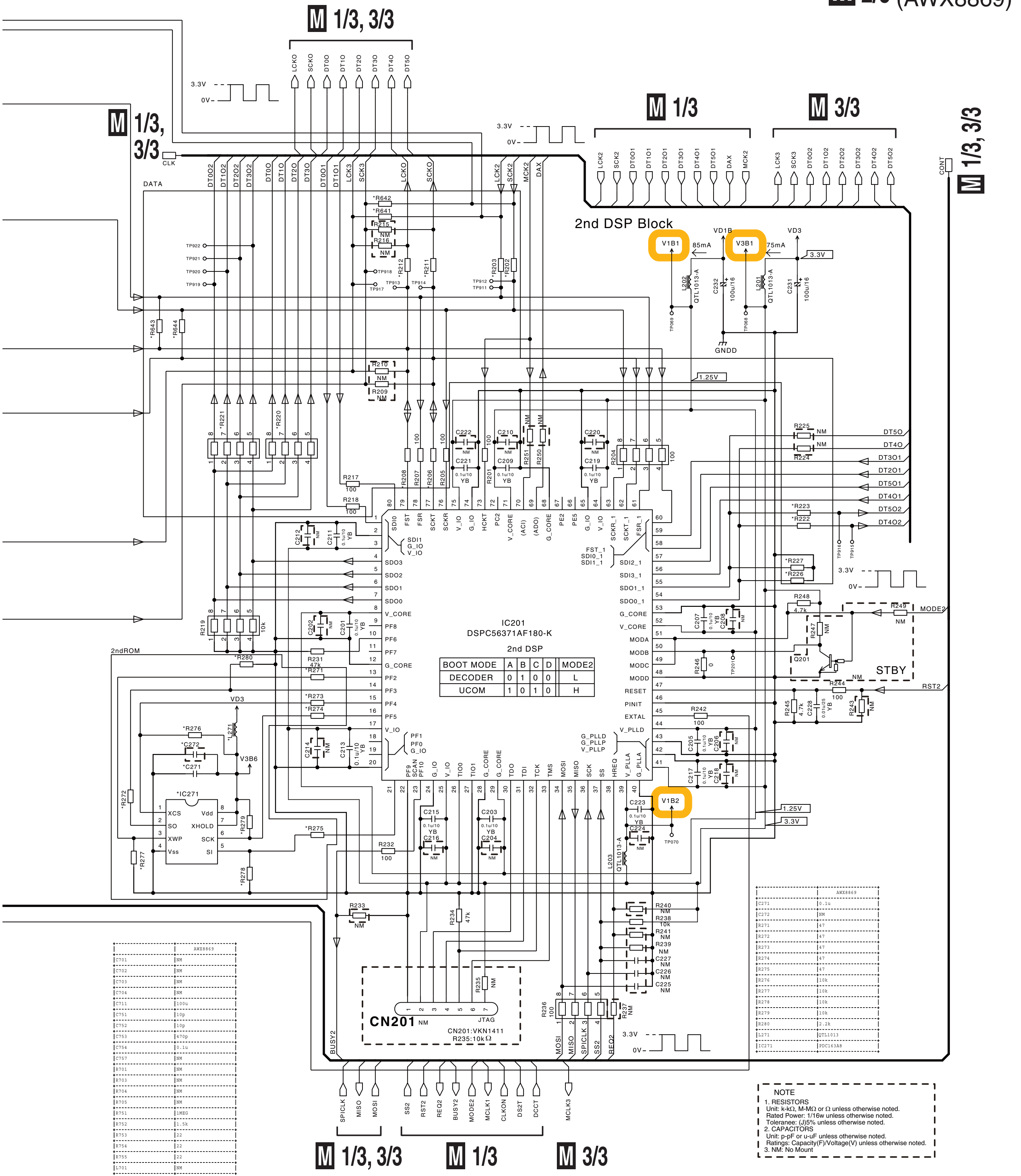
	AWX8869
C541	NM
C542	NM
C543	NM
C544	NM
R541	NM
R542	NM
R543	NM
R546	NM
R547	NM
L540	NM
L541	NM
L542	NM
IC541	NM
F540	NM

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.



2nd32bit
32bit Circuit Block
V3B2
*IC603 (4/4)
*L601
VD3
3.3V
TP601
TP602
*R601
*R602
*R603
*R604
*R605
*R606
*R607
*R608
*R609
*IC601
*IC602
*IC603 (3/4)
*C600
*C601
*C602
*C603
*C604
*C605
*C606
*C607
*R902
*R610
*R611
*R612
*IC603 (1/4)
*IC603 (2/4)
GNDD
STBY
TP603
*IC623 (4/4)
*R621 NM
*R622 NM
*R623 NM
*R624 NM
*R625 NM
*R627 NM
*R628 NM
*R629 NM
*IC621 NM
*IC622 NM
*IC623 (3/4)
*R630 NM
*R631 NM
*R632 NM
*IC623 (1/4)
*IC623 (2/4)
Down Sampling Block
TP604
*IC652
SELECT VCC
*R645 NM
*R651 NM
*R652 NM
*R653 NM
*R654 NM
*R655 NM
*R656 NM
*R657 NM
*R658 NM
*R659 NM
*R660 NM
*R661 NM
*R662 NM
*R646 NM
*IC651
*IC653 NM
*C651 NM
*C652 NM
*C653 NM
*C654 NM
*C655 NM
*C656 NM
DS2T | Down Sampling
H | ON
L | OFF
DS2T
DCCT
VD1B
1.25V
TP054
VD3
3.3V
TP053
VDD5
5V
IC521
PQ1LAX95MSPQ
IC511
PQ1LAX95MSPQ
R521 100
R522 12k
R511 20k
R512 12k
C522 1u/10
C521 1u/10
C512 1u/10
C511 1u/16
*C502 220u/6.3
*C501
ACH7276-A
ACH7275-A
REGULATOR Block
R513
R514 NM
VD1A
1.2V
TP055
L531
ATH7047-A
IC531
BD9107FVM
DCH1201-A
ATL7010-A
L530
L532
F530
170mA
C531 100u/16
C532
C533 1000p/50
C534
C535 NM
R531 9.1k
R532 18k
R533 10k
R536 NM
R537 0
V18A
STBY
V1A1
TP057
IC571
R571
R572
C571 NM
C572
R908
R909
R910
V18C
TP058
IC581 NM
*R581
*R582
*C581
*C582
*R911
*R912
*R913
V1C1
VD1C
1.2V
TP056
*L541
*IC541
*L540
*L542
*F540
*C541
*C542
*C543
*C544
*R541
*R542
*R543
*R546
*R547
CN571
NM
3rdDSP
GNDD
OSC
VD3
V3B3
DSP MCK OSC Block
*L701
*X701
OE VDD
GND OUTPUT
20MHz
*C701
*C702
3.3V
*R701
V3B4
*IC701
*L702
*C703
*C704
*R703
*R704
*R705
MCLK3
MCLK1
CLKON
CLKON | AWX8869
H | OFF
L | ON
V3B5
*L751
*C753
*C754
*R754
*R755
*R756 NM
*IC751
*C711
*Q751
*R751
*X751
20MHz
*R752
*R753
*C751
*C752
*C757
*IC752
NC
INA
GND
Vcc
OUTY
*C755 NM
*C756 NM
STBY
GNDD

M 2/3 DSP ASSY (AWX8869)


M 1/3, 3/3
LCKO
SCKO
DT0O
DT1O
DT2O
DT3O
DT4O
DT5O
3.3V
0V
M 1/3, 3/3
CLK
DATA
DT0O2
DT1O2
DT2O2
DT3O2
DT0O1
DT1O1
LCK3
SCK3
LCK2
SCK2
MCK2
DAX
M 1/3
LCK2
SCK2
DT0O1
DT1O1
DT2O1
DT3O1
DT4O1
DT5O1
DAX
MCK2
M 3/3
LCK3
SCK3
DT0O2
DT1O2
DT2O2
DT3O2
DT4O2
DT5O2
CONT
M 1/3, 3/3
2nd DSP Block
V1B1
85mA
VD1B
V3B1
75mA
VD3
3.3V
L202
QTL1013-A
C232
100u/16
L201
QTL1013-A
C231
100u/16
TP069
TP068
GNDD
1.25V
*R642
*R641
R215
NM
R216
NM
*R212
*R211
*R203
*R202
TP922
TP921
TP920
TP919
TP918
TP917
TP913
TP914
TP912
TP911
*R643
*R644
R210
NM
R209
NM
*R221
*R220
R217
100
R218
100
R208
R207
*R206
R205
R201
C222
NM
C221
0.1u/10
YB
C210
NM
C209
0.1u/10
YB
R251
R250
NM
C220
NM
C219
0.1u/10
YB
R204
100
R225
NM
R224
NM
DT5O
DT4O
DT3O1
DT2O1
DT5O1
DT4O1
DT5O2
DT4O2
*R223
*R222
TP916
TP915
*R227
*R226
3.3V
0V
R248
4.7k
R249
NM
MODE2
R247
NM
Q201
STBY
R244
100
RST2
R245
4.7k
C228
0.01u/25
YB
R243
NM
R246
0
TP201
R242
100
C207
0.1u/10
YB
C208
NM
C205
0.1u/10
YB
C206
NM
C217
0.1u/10
YB
C218
NM
SDIO
FST
FSR
SCKT
SCKR
V_IO
G_IO
HCKT
PC2
V_CORE
(ACI)
(ADO)
G_CORE
PE2
PE5
G_IO
V_IO
SCKR_1
SCKT_1
FSR_1
SDI1
G_IO
V_IO
FST_1
SDI0_1
SDI1_1
SDO3
SDO2
SDO1
SDO0
V_CORE
PF8
PF6
PF7
G_CORE
PF2
PF3
PF4
PF5
V_IO
SDI2_1
SDI3_1
SDO1_1
SDO0_1
G_CORE
V_CORE
MODA
MODB
MODC
MODD
RESET
PINIT
EXTAL
V_PLLD
G_PLLD
G_PLLP
V_PLLP
IC201
DSPC56371AF180-K
2nd DSP
BOOT MODE | A | B | C | D | MODE2
DECODER | 0 | 1 | 0 | 0 | L
UCOM | 1 | 0 | 1 | 0 | H
PF1
PF0
G_IO
PF9
SCAN
PF10
G_IO
V_IO
TIO0
TIO1
G_CORE
G_CORE
TDO
TDI
TCK
TMS
MOSI
MISO
SCK
SS
HREQ
V_PLLA
G_PLLA
C212
NM
C211
0.1u/10
YB
C202
NM
C201
0.1u/10
YB
C214
NM
C213
0.1u/10
YB
R219
10k
2ndROM
*R280
R231
47k
*R271
*R273
*R274
VD3
*R276
*L271
*C272
*C271
V3B6
*IC271
XCS
SO
XWP
Vss
Vdd
XHOLD
SCK
SI
*R272
*R277
*R279
*R278
*R275
R232
100
C215
0.1u/10
YB
C216
NM
C203
0.1u/10
YB
C204
NM
C223
0.1u/10
YB
C224
NM
V1B2
TP070
1.25V
3.3V
L203
QTL1013-A
R233
NM
R234
47k
R240
NM
R238
10k
R241
NM
R239
NM
C227
NM
C226
NM
C225
NM
R235
NM
CN201
NM
JTAG
CN201:VKN1411
R235:10kΩ
R236
100
R237
NM
BUSY2
MOSI
MISO
SPICLK_3
SS2
REQ2
3.3V
0V
SPICLK
MISO
MOSI
SS2
RST2
REQ2
BUSY2
MODE2
MCLK1
CLKON
DS2T
DCCT
MCLK3
M 1/3, 3/3
M 1/3
M 3/3

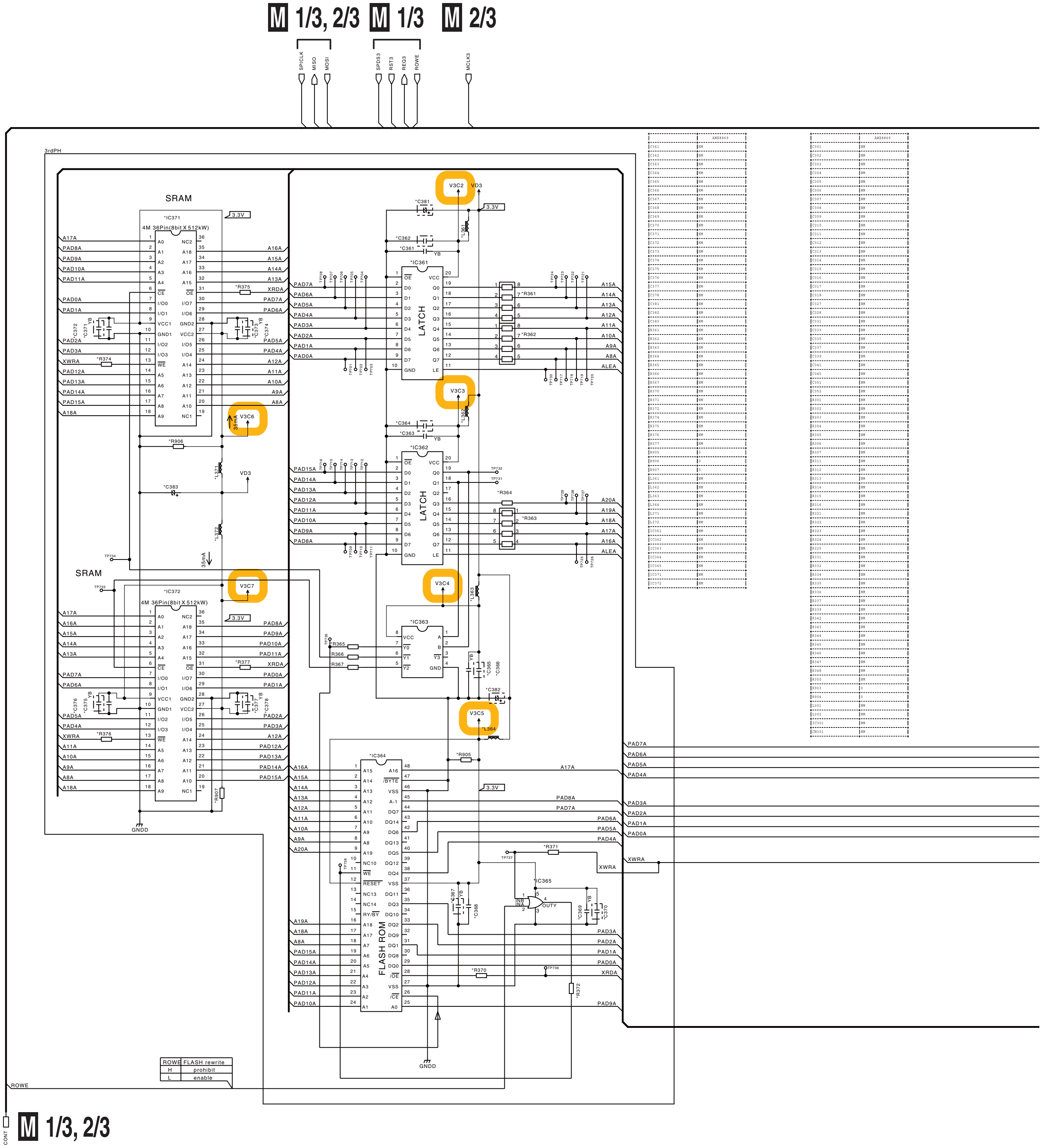
	AWX8869
C701	NM
C702	NM
C703	NM
C704	NM
C711	100u
C751	10p
C752	10p
C753	470p
C754	0.1u
C757	NM
R701	NM
R703	NM
R704	NM
R705	NM
R751	1MEG
R752	1.5k
R753	22
R754	22
R755	22
L701	NM
L702	NM
L751	QTL1013
IC701	NM
IC751	TC7WHU04FU
Q751	RT1N241M
X701	NM
X751	VSS1171-A

	AWX8869
C271	0.1u
C272	NM
R271	47
R272	47
R273	47
R274	47
R275	47
R276	10k
R277	10k
R278	10k
R279	10k
R280	2.2k
L271	QTL1013
IC271	PDC163A8

NOTE

1. RESISTORS
 Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated Power: 1/16w unless otherwise noted.
 Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
 Unit: p-pF or u-uF unless otherwise noted.
 Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

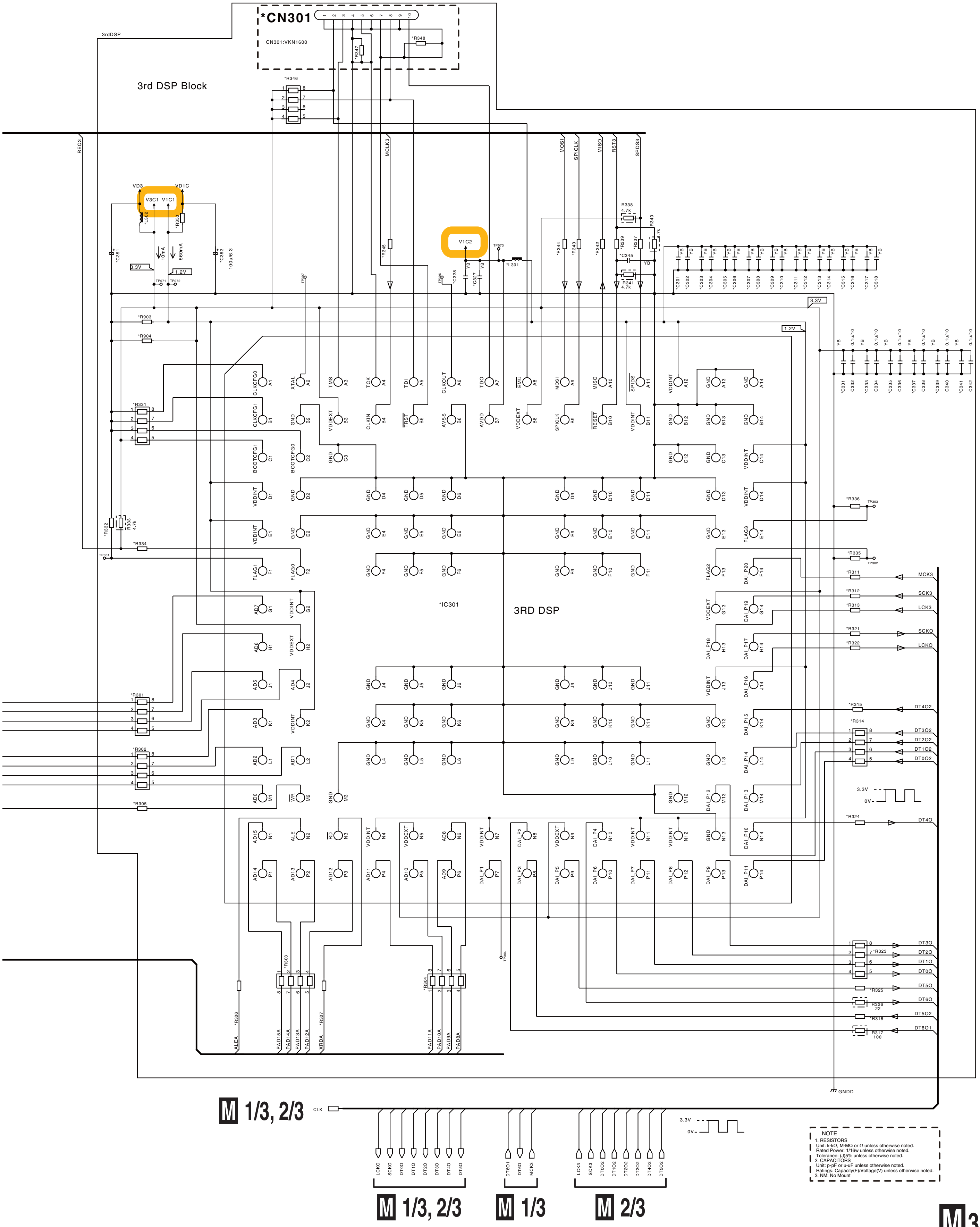
10.20 DSP ASSY (3/3)



M 1/3, 2/3
M 1/3
M 2/3
SPICLK
MISO
MOSI
SPDS3
RST3
REQ3
ROWE
MCLK3
3rdPH
SRAM
IC371
4M 36Pin(8bit X 512kW)
IC372
LATCH
IC361
IC362
IC363
IC364
FLASH ROM
IC365
V3C2
V3C3
V3C4
V3C5
V3C6
V3C7
VD3
3.3V
35mA
GNDD
ROWE
FLASH rewrite
H
prohibit
L
enable
CONT
M 1/3, 2/3

M 3/3

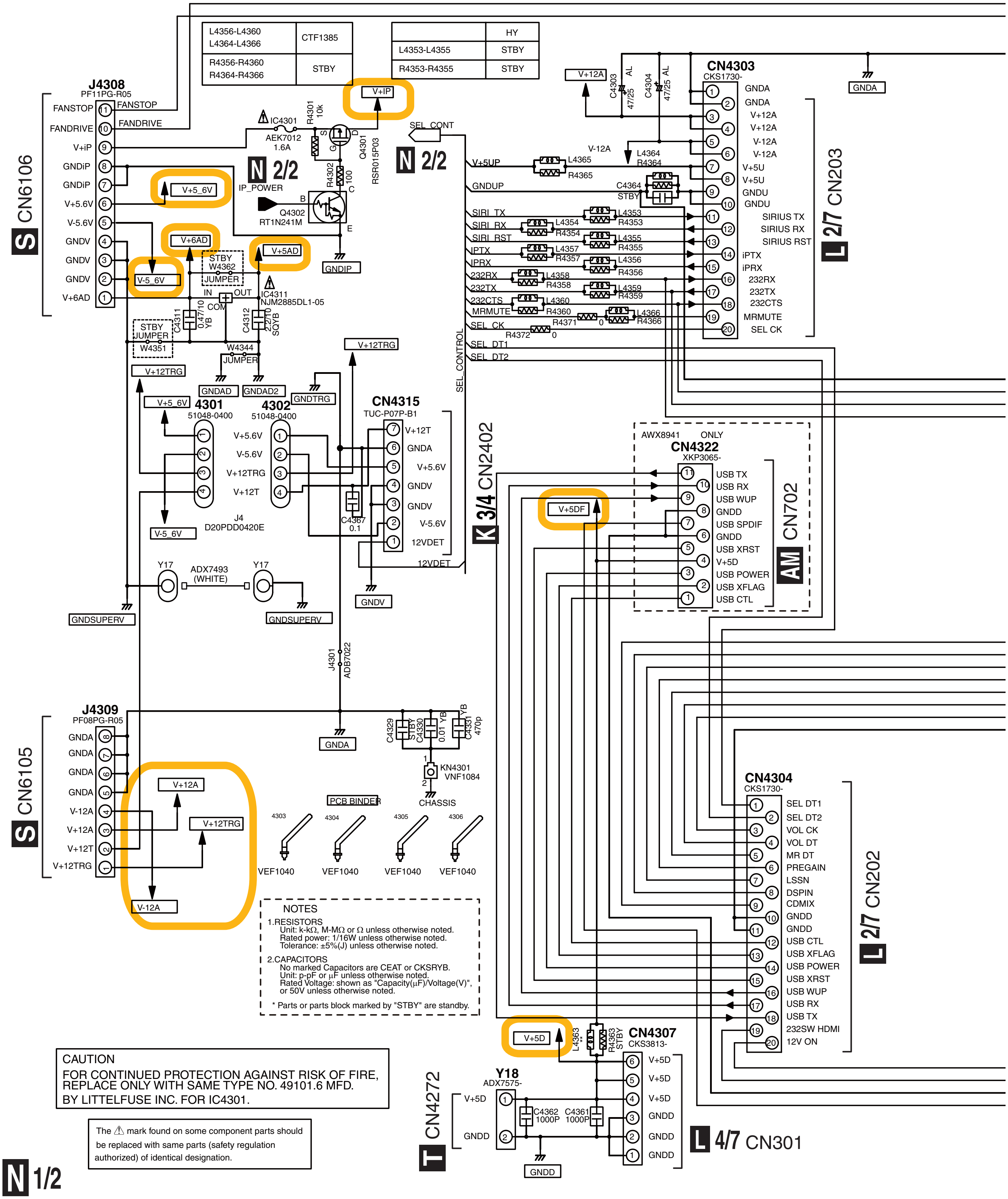
M 3/3 DSP ASSY (AWX8869)


*CN301
CN301:VKN1600
*R348
*R347
*R346
3rdDSP
3rd DSP Block
REQ3
MCLK3
MOSI
SPICLK
MISO
RST3
SPDS3
VD3
VD1C
V3C1
V1C1
*L302
*R350
*C351
*C352
100u/6.3
10mA
560mA
3.3V
1.2V
TP071
TP072
V1C2
TP073
*L301
*C328
*C327
YB
TP306
R338
4.7k
R340
4.7k
*R339
*R337
*C345
R341
4.7k
*R344
*R343
*R342
*R345
*C301
*C302
*C303
*C304
*C305
*C306
*C307
*C308
*C309
*C310
*C311
*C312
*C313
*C314
*C315
*C316
*C317
*C318
0.1u/10
*C331
C332
*C333
C334
*C335
C336
*C337
C338
*C339
C340
*C341
C342
*R903
*R904
*R331
*R332
*R333
4.7k
*R334
TP301
*R301
*R302
*R305
*R303
*R304
*R306
*R307
ALEA
PAD15A
PAD14A
PAD13A
PAD12A
XRDA
PAD11A
PAD10A
PAD9A
PAD8A
TP304
*IC301
3RD DSP
CLKCFG0
XTAL
TMS
TCK
TDI
CLKOUT
TDO
EMU
VDDINT
GND
CLKCFG1
VDDEXT
CLKIN
TRST
AVSS
AVDD
SPICLK
RESET
BOOTCFG1
BOOTCFG0
FLAG3
FLAG1
FLAG0
FLAG2
DAI_P20
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
WR
RD
AD15
ALE
AD8
AD14
AD13
AD12
AD11
AD10
AD9
DAI_P1
DAI_P2
DAI_P3
DAI_P4
DAI_P5
DAI_P6
DAI_P7
DAI_P8
DAI_P9
DAI_P10
DAI_P11
DAI_P12
DAI_P13
DAI_P14
DAI_P15
DAI_P16
DAI_P17
DAI_P18
DAI_P19
*R336
TP303
*R335
TP302
*R311
*R312
*R313
*R321
*R322
*R315
*R314
*R324
*R323
*R325
*R326
22
*R316
*R317
100
MCK3
SCK3
LCK3
SCKO
LCKO
DT4O2
DT3O2
DT2O2
DT1O2
DT0O2
3.3V
0V
DT4O
DT3O
DT2O
DT1O
DT0O
DT5O
DT6O
DT5O2
DT6O1
GNDD
M 1/3, 2/3
CLK
LCKO
SCKO
DT0O
DT1O
DT2O
DT3O
DT4O
DT5O
DT6O1
DT6O
MCK3
LCK3
SCK3
DT0O2
DT1O2
DT2O2
DT3O2
DT4O2
DT5O2
M 1/3, 2/3
M 1/3
M 2/3

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

10.21 INTERFACE ASSY (1/2)

N 1/2 INTERFACE ASSY
(VSX-LX70:AWX8949)
(VSX-LX60:AWX8941)



L4356-L4360 L4364-L4366	CTF1385
R4356-R4360 R4364-R4366	STBY

	HY
L4353-L4355	STBY
R4353-R4355	STBY

J4308
PF11PG-R05
FANSTOP
FANDRIVE
V+iP
GNDiP
V+5.6V
V-5.6V
GNDV
V+6AD
S CN6106
V+IP
V+5_6V
V+6AD
V+5AD
V-5_6V
IC4301
AEK7012
1.6A
R4301 10k
Q4301 RSR015P03
R4302 100
IP_POWER
Q4302 RT1N241M
N 2/2
STBY W4362 JUMPER
IN OUT COM
IC4311 NJM2885DL1-05
C4311 0.47/10 YB
C4312 2.2/10 SQYB
STBY JUMPER W4351
W4344 JUMPER
GNDIP
V+12TRG
GNDAD
GNDAD2
GNDTRG
4301 51048-0400
4302 51048-0400
V+12T
CN4315 TUC-P07P-B1
GNDA
12VDET
C4367 0.1
J4 D20PDD0420E
GNDV
Y17
ADX7493 (WHITE)
GNDSUPERV
J4301 ADB7022
SEL_CONT
SEL_CONTROL
V+5UP
GNDUP
SIRI_TX
SIRI_RX
SIRI_RST
IPTX
IPRX
232RX
232TX
232CTS
MRMUTE
SEL_CK
SEL_DT1
SEL_DT2
V+12A
V-12A
C4303 47/25 AL
C4304 47/25 AL
L4365 R4365
L4364 R4364
C4364 STBY
L4353 R4353
L4354 R4354
L4355 R4355
L4357 R4357
L4356 R4356
L4358 R4358
L4359 R4359
L4360 R4360
L4366 R4366
R4371 0
R4372 0
CN4303 CKS1730-
V+5U
GNDU
SIRIUS TX
SIRIUS RX
SIRIUS RST
iPTX
iPRX
232RX
232TX
232CTS
MRMUTE
SEL CK
L 2/7 CN203
K 3/4 CN2402
AWX8941 ONLY
CN4322 XKP3065-
USB TX
USB RX
USB WUP
GNDD
USB SPDIF
USB XRST
V+5D
USB POWER
USB XFLAG
USB CTL
V+5DF
AM CN702
J4309
PF08PG-R05
S CN6105
V+12T
V+12TRG
C4329 STBY
C4330 0.01 YB
C4331 470p YB
KN4301 VNF1084
CHASSIS
PCB BINDER
4303 4304 4305 4306
VEF1040
CN4304 CKS1730-
VOL CK
VOL DT
MR DT
PREGAIN
LSSN
DSPIN
CDMIX
232SW HDMI
12V ON
L 2/7 CN202
V+5D
L4363
R4363 STBY
CN4307 CKS3813-
Y18 ADX7575-
C4362 1000P
C4361 1000P
T CN4272
L 4/7 CN301

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
* Parts or parts block marked by "STBY" are standby.

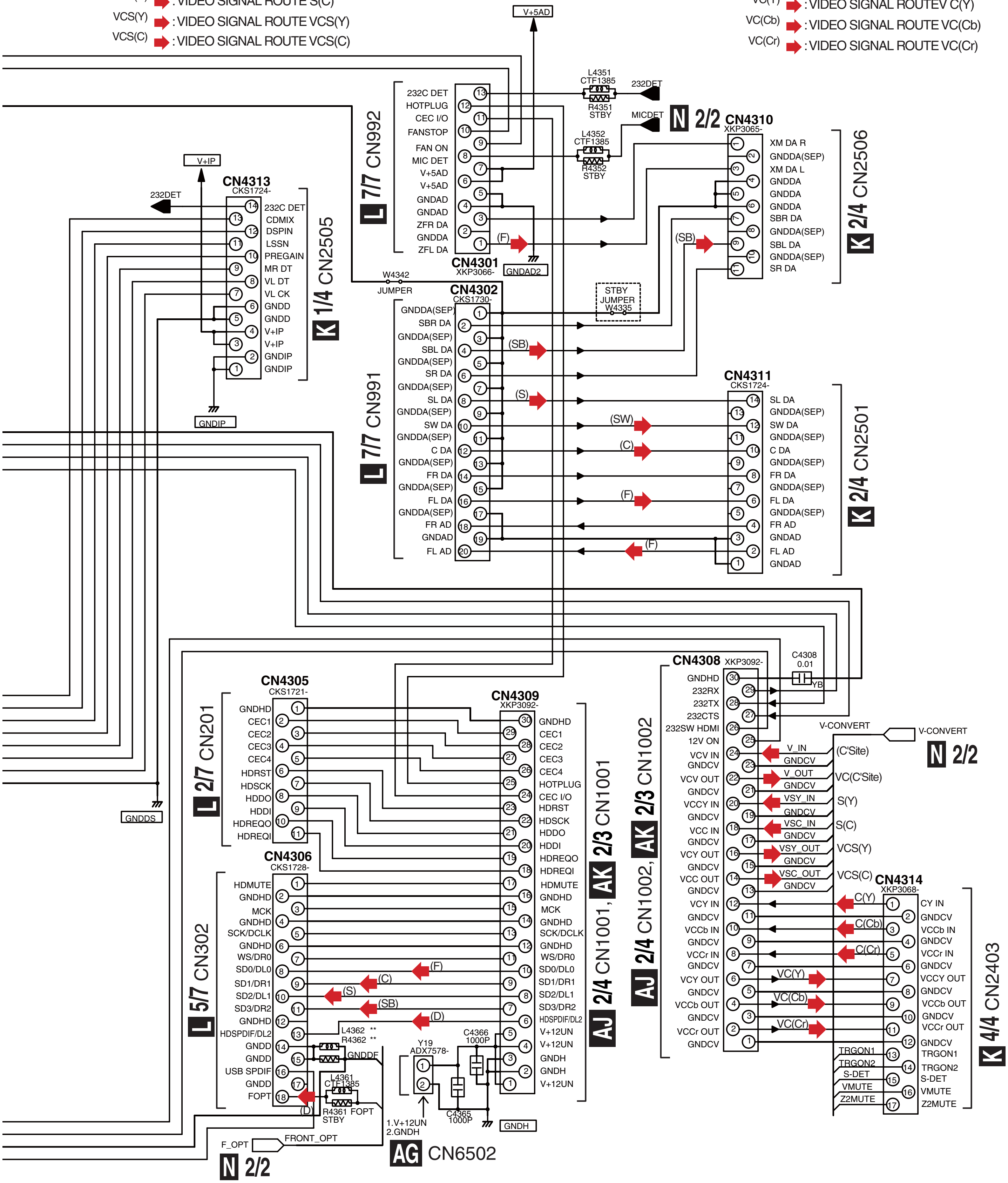
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD. BY LITTELFUSE INC. FOR IC4301.

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

N 1/2

(C'Site) : VIDEO SIGNAL ROUTE (C'Site)
VC(C'Site) : VIDEO SIGNAL ROUTE VC(C'Site)
S(Y) : VIDEO SIGNAL ROUTE S(Y)
S(C) : VIDEO SIGNAL ROUTE S(C)
VCS(Y) : VIDEO SIGNAL ROUTE VCS(Y)
VCS(C) : VIDEO SIGNAL ROUTE VCS(C)

C(Y) : VIDEO SIGNAL ROUTE C(Y)
C(Cb) : VIDEO SIGNAL ROUTE C(Cb)
C(Cr) : VIDEO SIGNAL ROUTE C(Cr)
VC(Y) : VIDEO SIGNAL ROUTEV C(Y)
VC(Cb) : VIDEO SIGNAL ROUTE VC(Cb)
VC(Cr) : VIDEO SIGNAL ROUTE VC(Cr)



A
B
C
D
E
F
V+5AD
L4351
CTF1385
R4351
STBY
232DET
MICDET
L4352
CTF1385
R4352
STBY
N 2/2 CN4310
XKP3065-
XM DA R
GNDDA(SEP)
XM DA L
GNDDA
GNDDA
GNDDA
SBR DA
GNDDA(SEP)
SBL DA
GNDDA(SEP)
SR DA
K 2/4 CN2506
L 7/7 CN992
232C DET
HOTPLUG
CEC I/O
FANSTOP
FAN ON
MIC DET
V+5AD
V+5AD
GNDAD
GNDAD
ZFR DA
GNDDA
ZFL DA
CN4301
XKP3066-
GNDAD2
(F)
(SB)
V+IP
232DET
CN4313
CKS1724-
232C DET
CDMIX
DSPIN
LSSN
PREGAIN
MR DT
VL DT
VL CK
GNDD
GNDD
V+IP
V+IP
GNDIP
GNDIP
K 1/4 CN2505
GNDIP
W4342
JUMPER
CN4302
CKS1730-
STBY
JUMPER
W4335
GNDDA(SEP)
SBR DA
GNDDA(SEP)
SBL DA
GNDDA(SEP)
SR DA
GNDDA(SEP)
SL DA
GNDDA(SEP)
SW DA
GNDDA(SEP)
C DA
GNDDA(SEP)
FR DA
GNDDA(SEP)
FL DA
GNDDA(SEP)
FR AD
GNDAD
FL AD
L 7/7 CN991
(SB)
(S)
(SW)
(C)
(F)
(F)
CN4311
CKS1724-
SL DA
GNDDA(SEP)
SW DA
GNDDA(SEP)
C DA
GNDDA(SEP)
FR DA
GNDDA(SEP)
FL DA
GNDDA(SEP)
FR AD
GNDAD
FL AD
GNDAD
K 2/4 CN2501
CN4308 XKP3092-
C4308
0.01
YB
GNDHD
232RX
232TX
232CTS
232SW HDMI
12V ON
VCV IN
GNDCV
VCV OUT
GNDCV
VCCY IN
GNDCV
VCC IN
GNDCV
VCY OUT
GNDCV
VCC OUT
GNDCV
VCY IN
GNDCV
VCCb IN
GNDCV
VCCr IN
GNDCV
VCY OUT
GNDCV
VCCb OUT
GNDCV
VCCr OUT
GNDCV
V-CONVERT
V-CONVERT
N 2/2
V_IN
GNDCV
V_OUT
GNDCV
VSY_IN
GNDCV
VSC_IN
GNDCV
VSY_OUT
GNDCV
VSC_OUT
GNDCV
(C'Site)
VC(C'Site)
S(Y)
S(C)
VCS(Y)
VCS(C)
CN4314
XKP3068-
C(Y)
C(Cb)
C(Cr)
VC(Y)
VC(Cb)
VC(Cr)
CY IN
GNDCV
VCCb IN
GNDCV
VCCr IN
GNDCV
VCCY OUT
GNDCV
VCCb OUT
GNDCV
VCCr OUT
GNDCV
TRGON1
TRGON2
S-DET
VMUTE
Z2MUTE
TRGON1
TRGON2
S-DET
VMUTE
Z2MUTE
K 4/4 CN2403
AJ 2/4 CN1002, AK 2/3 CN1002
AJ 2/4 CN1001, AK 2/3 CN1001
CN4305
CKS1721-
GNDHD
CEC1
CEC2
CEC3
CEC4
HDRST
HDSCK
HDDO
HDDI
HDREQO
HDREQI
L 2/7 CN201
GNDDS
CN4309
XKP3092-
GNDHD
CEC1
CEC2
CEC3
CEC4
HOTPLUG
CEC I/O
HDRST
HDSCK
HDDO
HDDI
HDREQO
HDREQI
HDMUTE
GNDHD
MCK
GNDHD
SCK/DCLK
GNDHD
WS/DR0
SD0/DL0
SD1/DR1
SD2/DL1
SD3/DR2
HDSPDIF/DL2
V+12UN
V+12UN
GNDH
GNDH
V+12UN
CN4306
CKS1728-
HDMUTE
GNDHD
MCK
GNDHD
SCK/DCLK
GNDHD
WS/DR0
SD0/DL0
SD1/DR1
SD2/DL1
SD3/DR2
GNDHD
HDSPDIF/DL2
GNDD
GNDD
USB SPDIF
GNDD
FOPT
L 5/7 CN302
(F)
(C)
(S)
(SB)
(D)
(D)
L4362 **
R4362 **
GNDDF
L4361
CTF1385
R4361 FOPT
STBY
Y19
ADX7578-
C4366
1000P
C4365
1000P
1.V+12UN
2.GNDH
GNDH
F_OPT
FRONT_OPT
N 2/2
AG CN6502

**

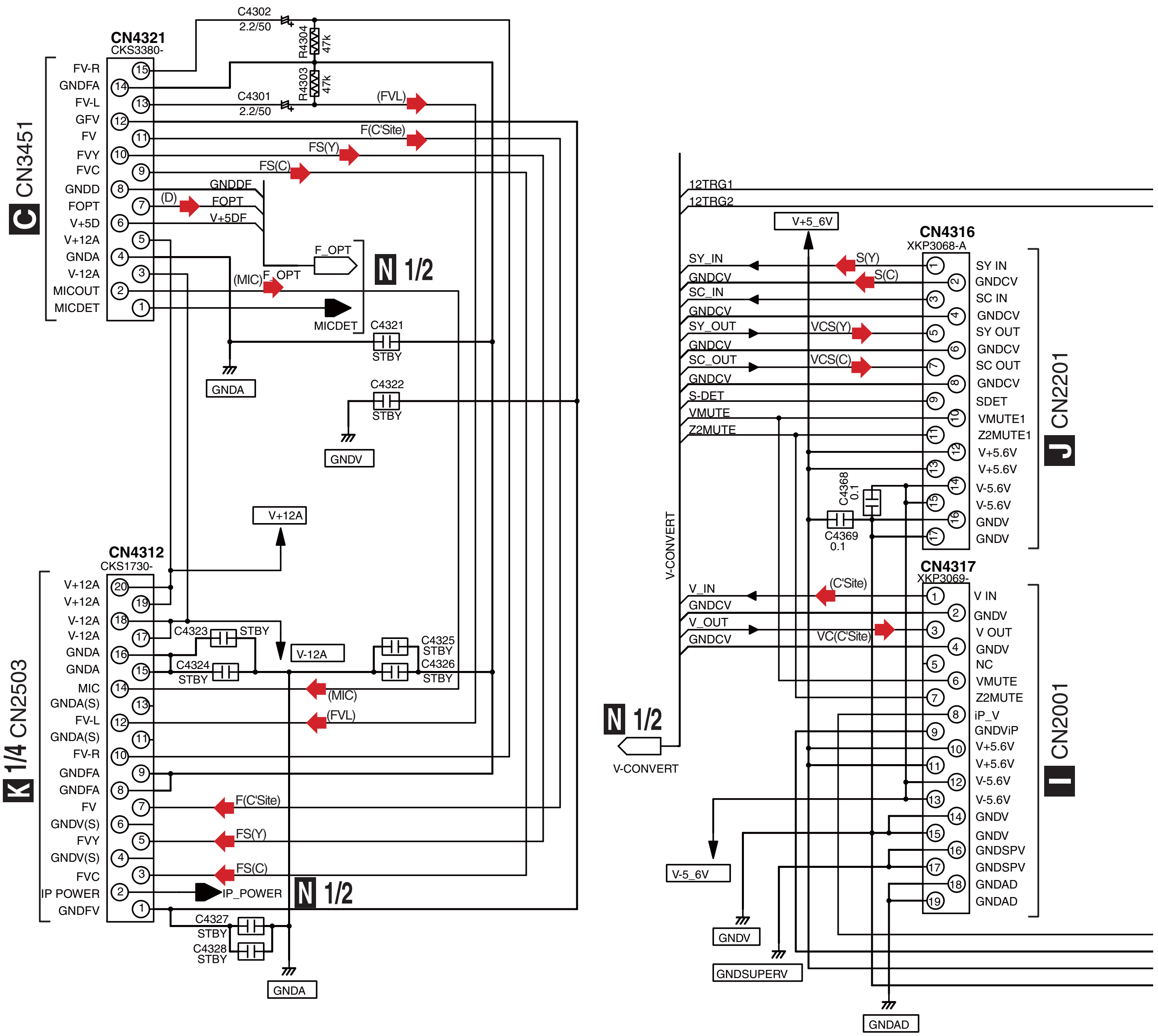
	AWX8941	AWX8949
L4362	STBY	CTF1385
L4363	VTL1169	CTF1385
R4362	0Ω	STBY

(F) : AUDIO SIGNAL ROUTE(F)
(C) : AUDIO SIGNAL ROUTE(C)
(S) : AUDIO SIGNAL ROUTE(S)
(SB) : AUDIO SIGNAL ROUTE(SB)
(SW) : AUDIO SIGNAL ROUTE(SW)
(D) : AUDIO SIGNAL ROUTE(SPDIF)

N 1/2

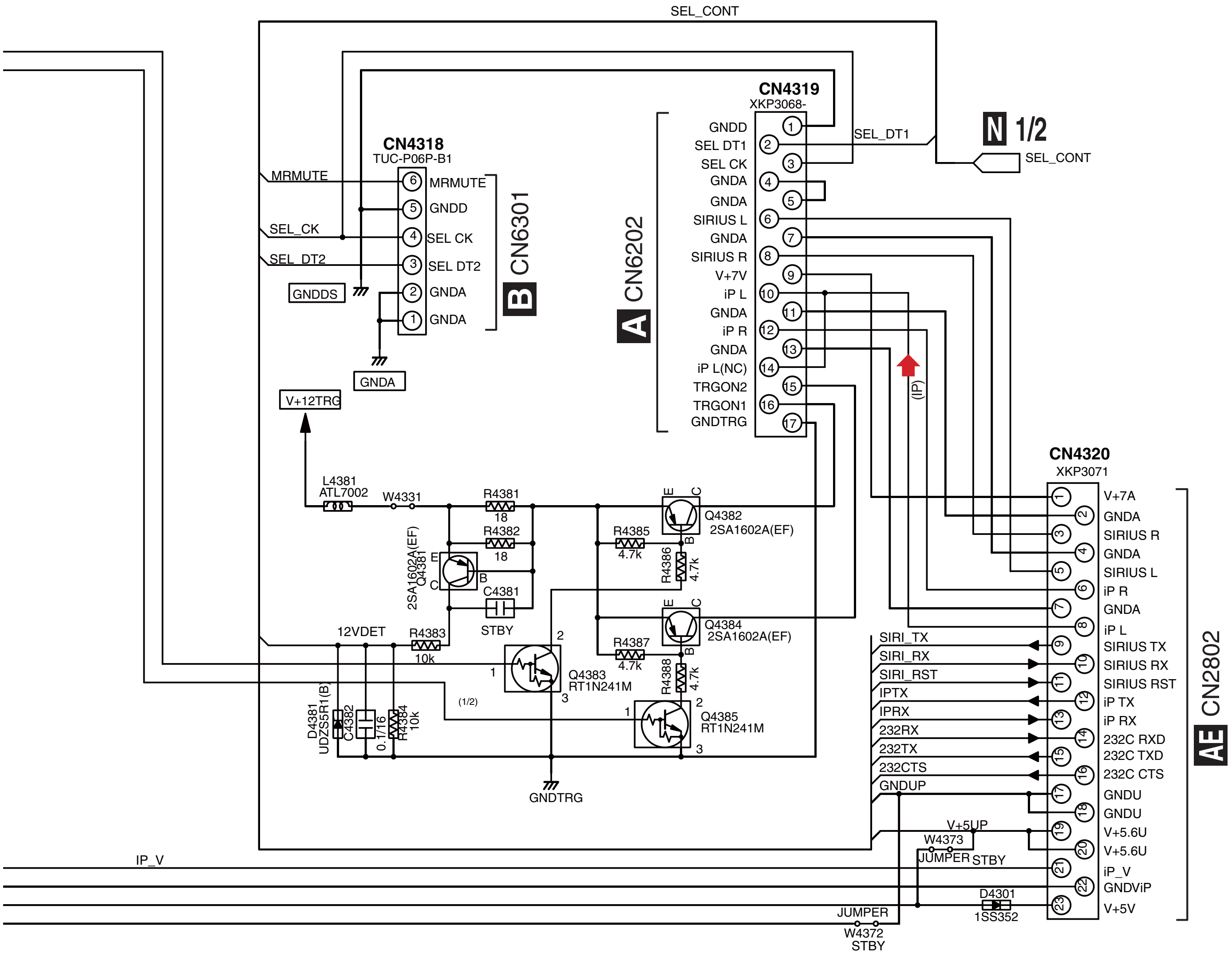
10.22 INTERFACE ASSY (2/2)

N 2/2 INTERFACE ASSY
(VSX-LX70:AWX8949)
(VSX-LX60:AWX8941)



C CN3451
CN4321
CKS3380-
FV-R
GNDFA
FV-L
GFV
FV
FVY
FVC
GNDD
FOPT
V+5D
V+12A
GNDA
V-12A
MICOUT
MICDET
C4302
2.2/50
R4304
47k
R4303
47k
C4301
2.2/50
(FVL)
F(C'Site)
FS(Y)
FS(C)
GNDDF
(D)
FOPT
V+5DF
F_OPT
N 1/2
(MIC)
F_OPT
MICDET
C4321
STBY
GNDA
C4322
STBY
GNDV
V+12A
K 1/4 CN2503
CN4312
CKS1730-
V+12A
V+12A
V-12A
V-12A
GNDA
GNDA
MIC
GNDA(S)
FV-L
GNDA(S)
FV-R
GNDFA
GNDFA
FV
GNDV(S)
FVY
GNDV(S)
FVC
IP POWER
GNDFV
C4323
STBY
C4324
STBY
V-12A
C4325
STBY
C4326
STBY
(MIC)
(FVL)
F(C'Site)
FS(Y)
FS(C)
IP_POWER
N 1/2
C4327
STBY
C4328
STBY
GNDA
12TRG1
12TRG2
V+5_6V
CN4316
XKP3068-A
SY_IN
GNDCV
SC_IN
GNDCV
SY_OUT
GNDCV
SC_OUT
GNDCV
S-DET
VMUTE
Z2MUTE
S(Y)
S(C)
VCS(Y)
VCS(C)
SY IN
GNDCV
SC IN
GNDCV
SY OUT
GNDCV
SC OUT
GNDCV
SDET
VMUTE1
Z2MUTE1
V+5.6V
V+5.6V
V-5.6V
V-5.6V
GNDV
GNDV
J CN2201
C4368
0.1
C4369
0.1
V-CONVERT
CN4317
XKP3069-
V_IN
GNDCV
V_OUT
GNDCV
(C'Site)
VC(C'Site)
V IN
GNDV
V OUT
GNDV
NC
VMUTE
Z2MUTE
iP_V
GNDViP
V+5.6V
V+5.6V
V-5.6V
V-5.6V
GNDV
GNDV
GNDSPV
GNDSPV
GNDAD
GNDAD
I CN2001
N 1/2
V-CONVERT
V-5_6V
GNDV
GNDSUPERV
GNDAD

N 2/2



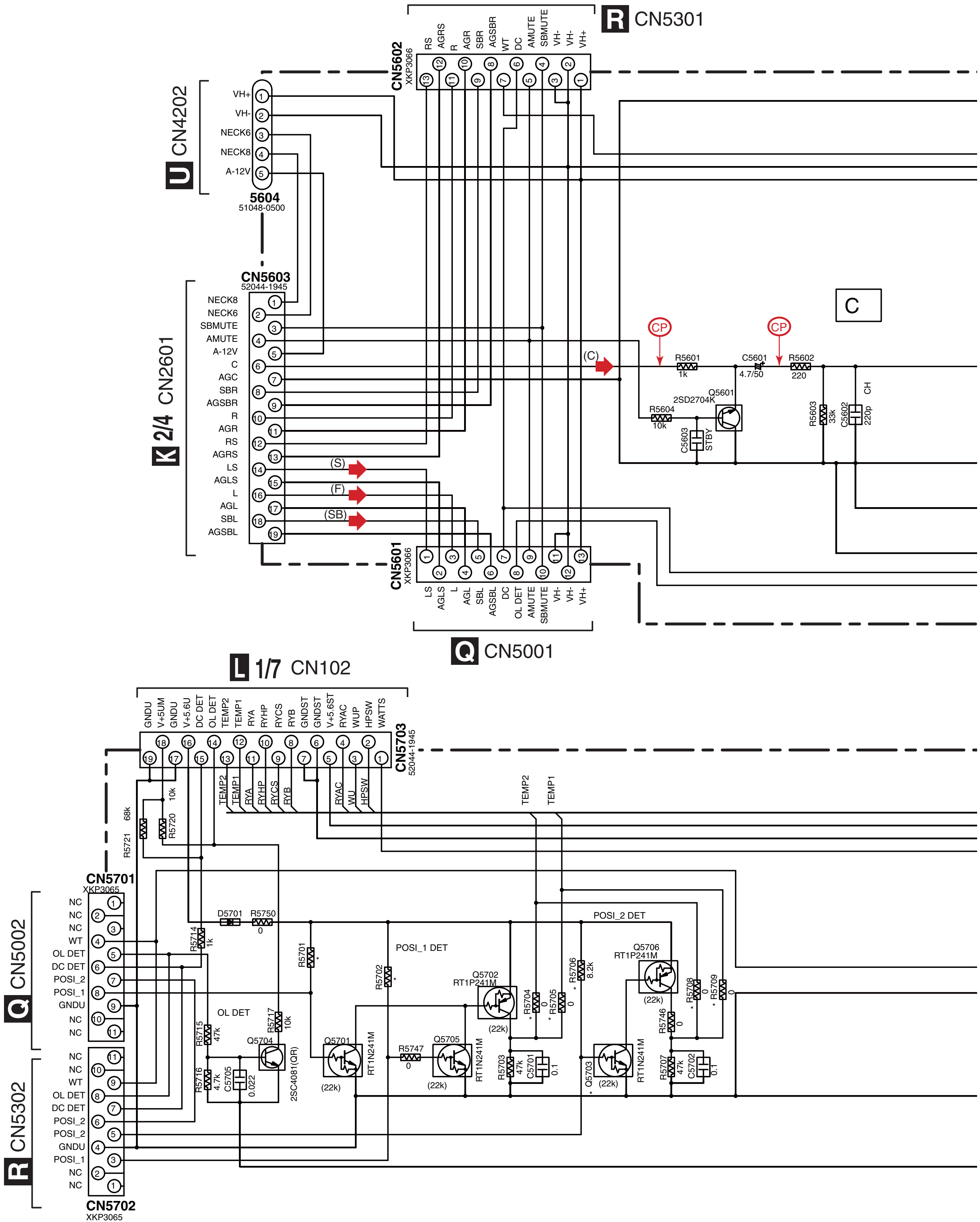
SEL_CONT
CN4319
XKP3068-
GNDD
SEL DT1
SEL CK
GNDA
GNDA
SIRIUS L
GNDA
SIRIUS R
V+7V
iP L
GNDA
iP R
GNDA
iP L(NC)
TRGON2
TRGON1
GNDTRG
SEL_DT1
N 1/2
SEL_CONT
A CN6202
CN4318
TUC-P06P-B1
MRMUTE
GNDD
SEL CK
SEL DT2
GNDA
GNDA
B CN6301
MRMUTE
SEL_CK
SEL_DT2
GNDDS
GNDA
V+12TRG
(IP)
CN4320
XKP3071
V+7A
GNDA
SIRIUS R
GNDA
SIRIUS L
iP R
GNDA
iP L
SIRIUS TX
SIRIUS RX
SIRIUS RST
iP TX
iP RX
232C RXD
232C TXD
232C CTS
GNDU
GNDU
V+5.6U
V+5.6U
iP_V
GNDViP
V+5V
AE CN2802
SIRI_TX
SIRI_RX
SIRI_RST
IPTX
IPRX
232RX
232TX
232CTS
GNDUP
V+5UP
W4373
JUMPER
STBY
D4301
1SS352
JUMPER
W4372
STBY
IP_V
L4381
ATL7002
W4331
R4381
18
R4382
18
Q4381
2SA1602A(EF)
E
C
B
C4381
STBY
R4385
4.7k
R4386
4.7k
Q4382
2SA1602A(EF)
E
C
B
Q4384
2SA1602A(EF)
R4387
4.7k
R4388
4.7k
12VDET
R4383
10k
Q4383
RT1N241M
Q4385
RT1N241M
(1/2)
D4381
UDZS5R1(B)
C4382
0.1/16
R4384
10k
GNDTRG
1
2
3

(FVL) ➡ : VIDEO SIGNAL ROUTE (VIDEO2)
F(C'Site) ➡ : VIDEO SIGNAL ROUTE F(C'Site)
FS(C) ➡ : VIDEO SIGNAL ROUTE FS(C)
FS(Y) ➡ : VIDEO SIGNAL ROUTE FS(Y)
(C'Site) ➡ : VIDEO SIGNAL ROUTE (C'Site)
VC(C'Site) ➡ : VIDEO SIGNAL ROUTE VC(C'Site)
S(Y) ➡ : VIDEO SIGNAL ROUTE S(Y)
S(C) ➡ : VIDEO SIGNAL ROUTE S(C)
VCS(Y) ➡ : VIDEO SIGNAL ROUTE VCS(Y)
VCS(C) ➡ : VIDEO SIGNAL ROUTE VCS(C)

(IP) ➡ : AUDIO SIGNAL ROUTE(IP)
(MIC) ➡ : AUDIO SIGNAL ROUTE(MIC)
(D) ➡ : AUDIO SIGNAL ROUTE(SPDIF)

N 2/2

10.23 POWER AMP IN and POWER PROTECT ASSYS


R CN5301
CN5602 XKP3066
RS AGRS R AGR SBR AGSBR WT DC AMUTE SBMUTE VH- VH- VH+
U CN4202
VH+ VH- NECK6 NECK8 A-12V
5604 51048-0500
CN5603 52044-1945
K 2/4 CN2601
NECK8 NECK6 SBMUTE AMUTE A-12V C AGC SBR AGSBR R AGR RS AGRS LS AGLS L AGL SBL AGSBL
(S) (F) (SB) (C)
C
CP
R5601 1k
C5601 4.7/50
R5602 220
R5604 10k
2SD2704K Q5601
C5603 STBY
R5603 33k
C5602 220p
CH
CN5601 XKP3066
LS AGLS L AGL SBL AGSBL DC OL DET AMUTE SBMUTE VH- VH- VH+
Q CN5001
L 1/7 CN102
GNDU V+5UM GNDU V+5.6U DC DET OL DET TEMP2 TEMP1 RYA RYHP RYCS RYB GNDST GNDST V+5.6ST RYAC WUP HPSW WATTS
CN5703 52044-1945
TEMP2 TEMP1 RYA RYHP RYCS RYB RYAC WU HPSW
TEMP2 TEMP1
R5721 68k
R5720 10k
CN5701 XKP3065
Q CN5002
NC NC NC WT OL DET DC DET POSI_2 POSI_1 GNDU NC NC
R CN5302
NC NC WT OL DET DC DET POSI_2 POSI_2 GNDU POSI_1 NC NC
CN5702 XKP3065
D5701 R5750 0
R5714 1k
R5701 *
R5702 *
POSI_1 DET
POSI_2 DET
OL DET
R5715 47k
R5717 10k
R5716 4.7k
C5705 0.022
Q5704 2SC4081(QR)
Q5701 (22k) RT1N241M
R5747 0
Q5705 (22k) RT1N241M
Q5702 RT1P241M (22k)
R5704 0 *
R5705 0 *
R5703 47k
C5701 0.1
R5706 8.2k *
Q5706 RT1P241M (22k)
R5708 0 *
R5709 0 *
R5746 0
Q5703 * (22k) RT1N241M
R5707 47k
C5702 0.1

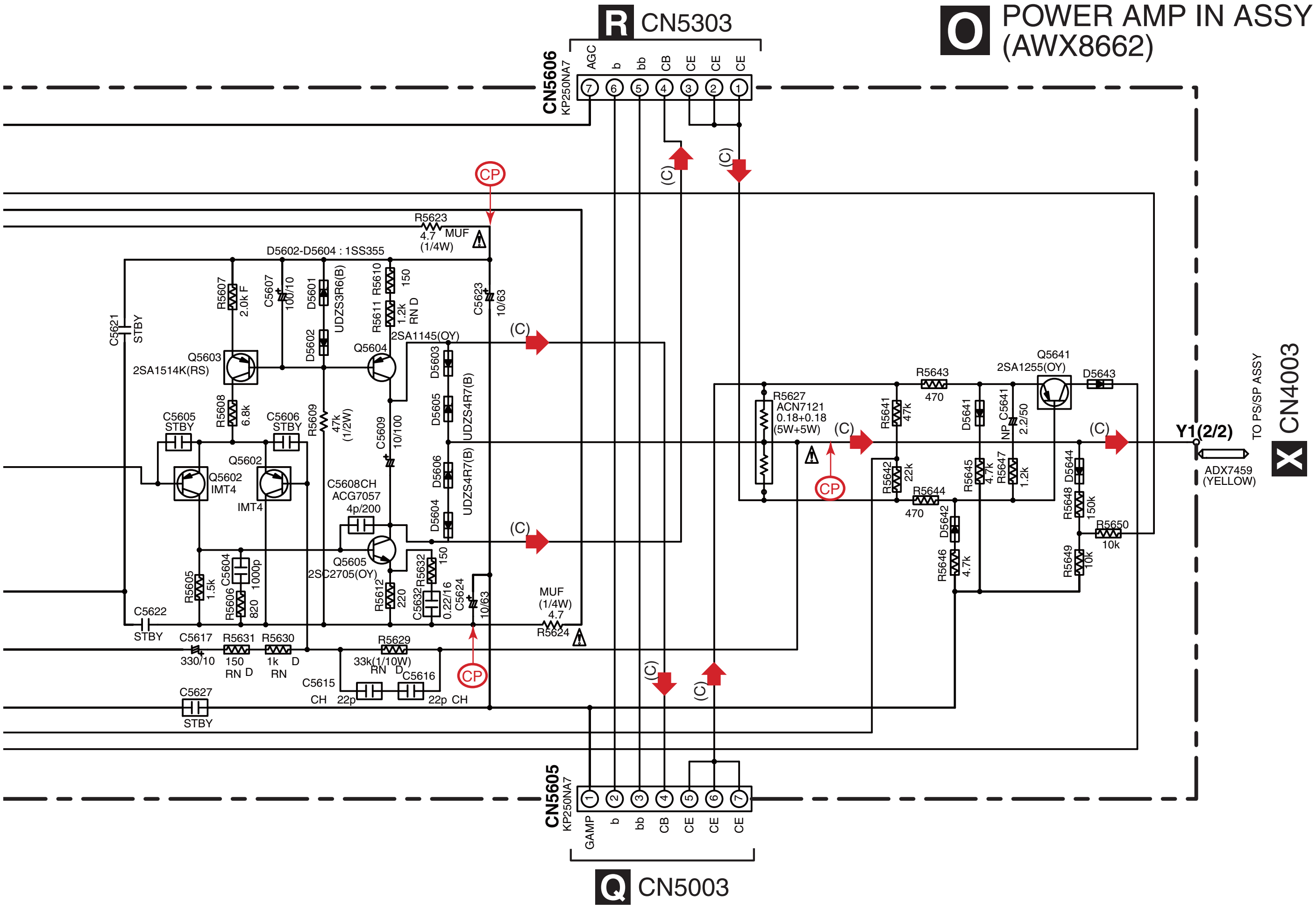
* MARK PARTS

	Q5703	Q5706	R5701	R5702	R5704	R5705	R5706	R5708	R5709
AWX8659(/HY)	yes	yes	5.6k	5.6k	non	0	8.2k	0	non

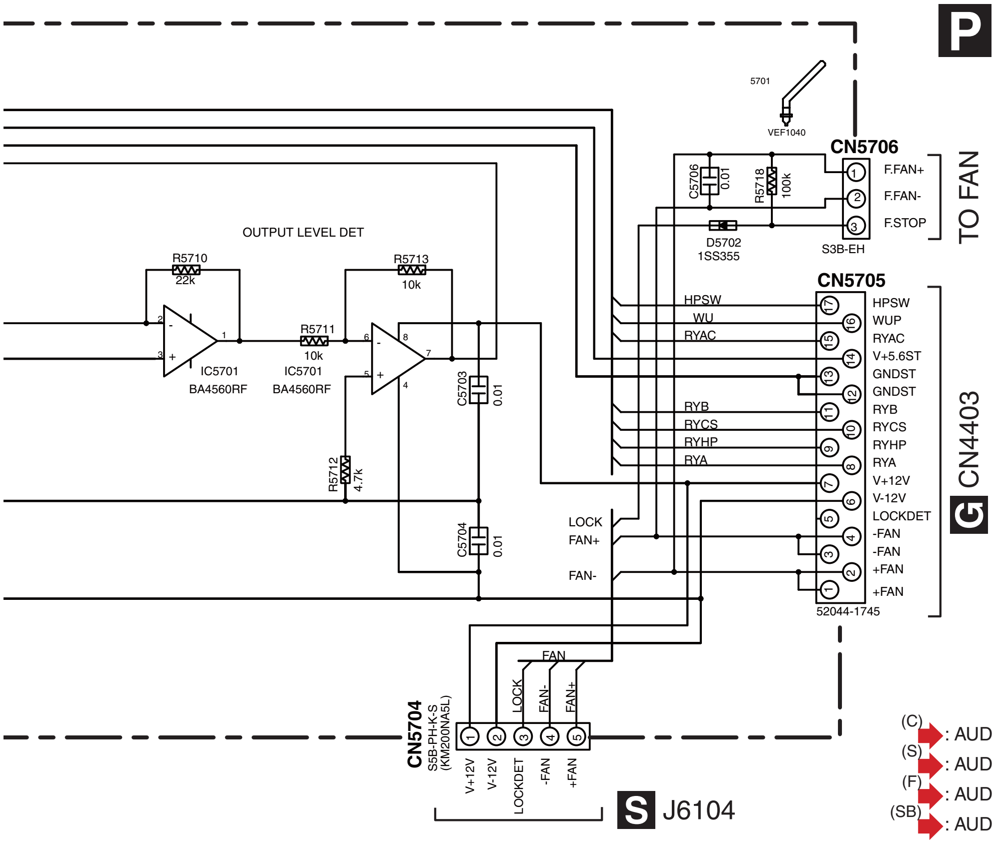
PROTECTION DETECT

	NORMAL	DETECT
LOCK DET	L	H
OL DET	H	L
DC DET	H	L
TEMP1,2	L	H

O POWER AMP IN ASSY (AWX8662)


R CN5303
CN5606
KP250NA7
AGC b bb CB CE CE CE
7 6 5 4 3 2 1
(C)
(C)
CP
R5623
4.7 MUF
(1/4W)
D5602-D5604 : 1SS355
R5607
2.0k F
C5607
100/10
D5601
UDZS3R6(B)
R5610
150
R5611
1.2k
RN D
C5623
10/63
C5621
STBY
Q5603
2SA1514K(RS)
D5602
Q5604
2SA1145(OY)
(C)
D5603
D5605
UDZS4R7(B)
R5608
6.8k
C5605
STBY
C5606
STBY
R5609
47k
(1/2W)
C5609
10/100
Q5602
Q5602
IMT4
IMT4
C5608CH
ACG7057
4p/200
D5606
UDZS4R7(B)
D5604
(C)
Q5605
2SC2705(OY)
R5605
1.5k
C5604
1000p
R5606
820
R5612
220
R5632
150
C5632
0.22/16
C5624
10/63
MUF
(1/4W)
4.7
R5624
C5622
STBY
C5617
330/10
R5631
150
RN D
R5630
1k D
RN
R5629
33k(1/10W)
RN D
C5615
CH 22p
C5616
22p CH
CP
C5627
STBY
(C)
(C)
R5627
ACN7121
0.18+0.18
(5W+5W)
(C)
CP
R5643
470
Q5641
2SA1255(OY)
D5643
R5641
47k
D5641
C5641
NP
2.2/50
(C)
Y1(2/2)
TO PS/SP ASSY
X CN4003
ADX7459
(YELLOW)
R5642
22k
R5644
470
R5645
4.7k
R5647
1.2k
D5644
R5648
150k
R5650
10k
D5642
R5646
4.7k
R5649
10k
CN5605
KP250NA7
1 2 3 4 5 6 7
GAMP b bb CB CE CE CE
Q CN5003

P POWER PROTECT ASSY (AWX8659)


5701
VEF1040
CN5706
C5706
0.01
R5718
100k
1 F.FAN+
2 F.FAN-
3 F.STOP
D5702
1SS355
S3B-EH
TO FAN
OUTPUT LEVEL DET
R5710
22k
R5713
10k
IC5701
BA4560RF
R5711
10k
IC5701
BA4560RF
C5703
0.01
R5712
4.7k
C5704
0.01
CN5705
HPSW
WU
RYAC
RYB
RYCS
RYHP
RYA
LOCK
FAN+
FAN-
17 HPSW
16 WUP
15 RYAC
14 V+5.6ST
13 GNDST
12 GNDST
11 RYB
10 RYCS
9 RYHP
8 RYA
7 V+12V
6 V-12V
5 LOCKDET
4 -FAN
3 -FAN
2 +FAN
1 +FAN
52044-1745
G CN4403
FAN
LOCK
FAN-
FAN+
CN5704
S5B-PH-K-S
(KM200NA5L)
1 2 3 4 5
V+12V
V-12V
LOCKDET
-FAN
+FAN
S J6104

CAUTION
Do not touch any points on the PCB other than (CP) with an oscilloscope/tester while power is applied.
(It may damage the amplifier due to the oscillation generated.)

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
F:±1% D:±0.5%
RN:Fixed Metal Film
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. CH:CCSRCH
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

(C) ➡ : AUDIO SIGNAL ROUTE(C)
(S) ➡ : AUDIO SIGNAL ROUTE(S)
(F) ➡ : AUDIO SIGNAL ROUTE(F)
(SB) ➡ : AUDIO SIGNAL ROUTE(SB)

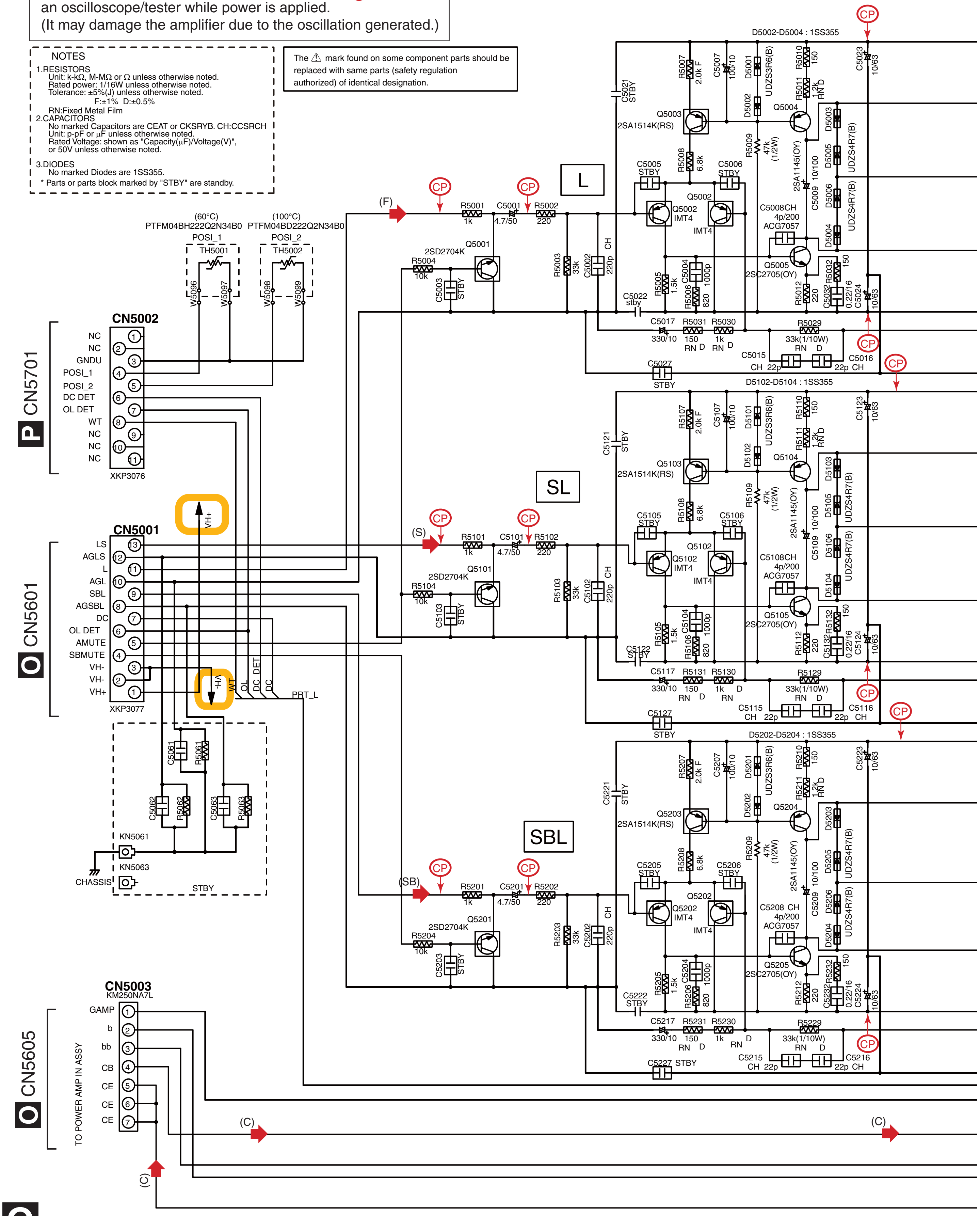
O P

10.24 POWER AMP L ASSY

CAUTION
Do not touch any points on the PCB other than CP with
an oscilloscope/tester while power is applied.
(It may damage the amplifier due to the oscillation generated.)

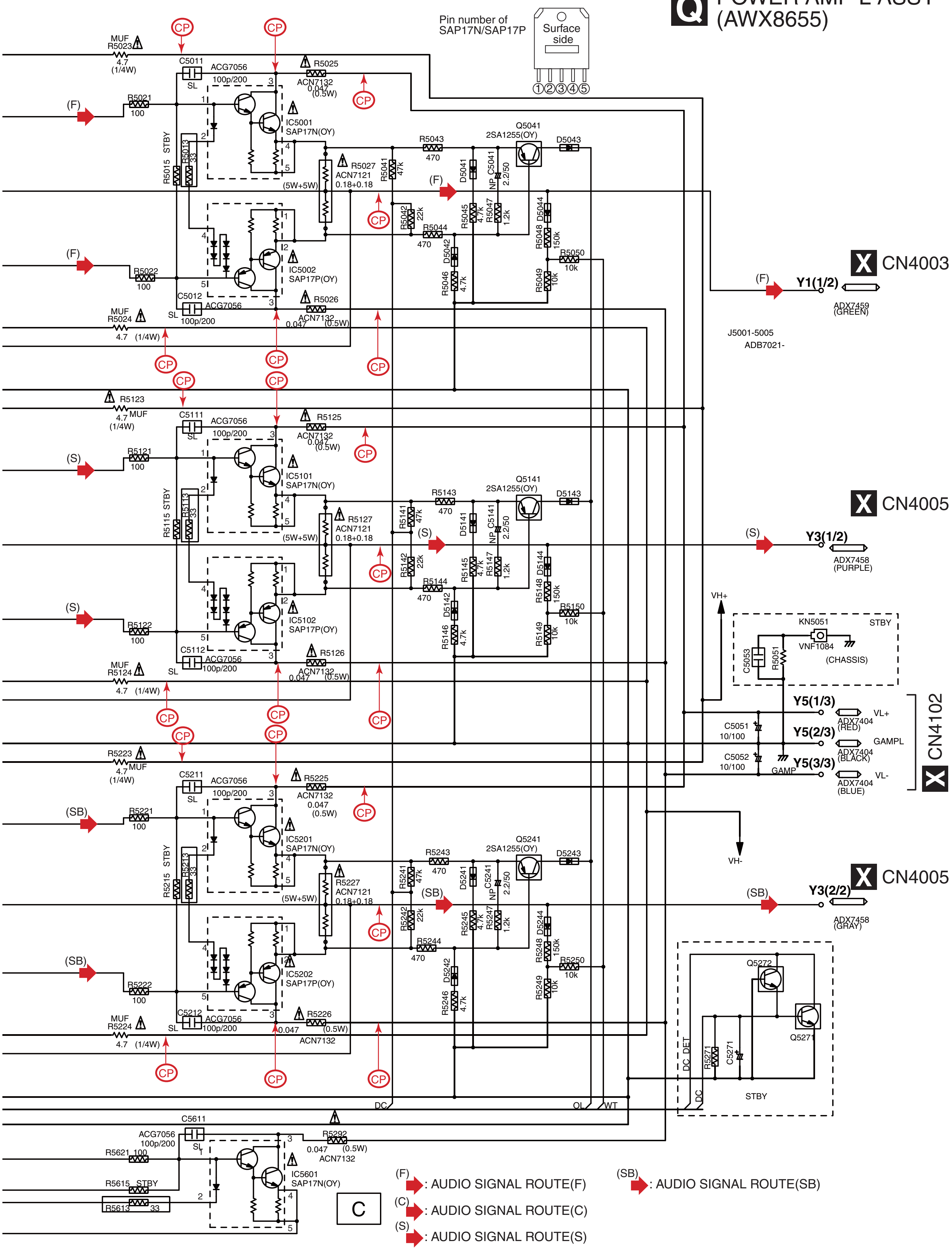
NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
F:±1% D:±0.5%
RN:Fixed Metal Film
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. CH:CCSRCH
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.


A
B
C
D
E
F
CP
D5002-D5004 : 1SS355
R5007 2.0k F
C5007 100/10
D5001
UDZS3R6(B)
R5010 150
C5023 10/63
C5021 STBY
R5011 12k RN D
Q5003
2SA1514K(RS)
D5002
Q5004
D5003
R5009 47k (1/2W)
R5008 6.8k
2SA1145(OY)
D5005
UDZS4R7(B)
C5005 STBY
C5006 STBY
C5009 10/100
D5006
Q5002
IMT4
C5008CH 4p/200
ACG7057
D5004
L
(F)
R5001 1k
C5001 4.7/50
R5002 220
(60°C)
PTFM04BH222Q2N34B0
POSI_1
TH5001
(100°C)
PTFM04BD222Q2N34B0
POSI_2
TH5002
W5096
W5097
W5098
W5099
Q5001
2SD2704K
R5004 10k
C5003 STBY
R5003 33k
C5002 220p CH
Q5005
2SC2705(OY)
R5005 1.5k
C5004 1000p
R5006 820
R5012 220
R5032 150
C5032 0.22/16
C5024 10/63
C5022 stby
C5017 330/10
R5031 150 RN D
R5030 1k RN D
R5029 33k(1/10W) RN D
C5015 CH 22p
C5016 22p CH
C5027 STBY
CN5002
NC
NC
GNDU
POSI_1
POSI_2
DC DET
OL DET
WT
NC
NC
NC
XKP3076
P
CN5701
D5102-D5104 : 1SS355
R5107 2.0k F
C5107 100/10
D5101
UDZS3R6(B)
R5110 150
C5123 10/63
C5121 STBY
R5111 12k RN D
Q5103
2SA1514K(RS)
D5102
Q5104
D5103
R5109 47k (1/2W)
R5108 6.8k
2SA1145(OY)
D5105
UDZS4R7(B)
SL
C5105 STBY
C5106 STBY
C5109 10/100
D5106
Q5102
IMT4
C5108CH 4p/200
ACG7057
D5104
VH+
CN5001
LS
AGLS
L
AGL
SBL
AGSBL
DC
OL DET
AMUTE
SBMUTE
VH-
VH-
VH+
XKP3077
O
CN5601
VH-
WT
OL
DC_DET
DC
PRT_L
(S)
R5101 1k
C5101 4.7/50
R5102 220
Q5101
2SD2704K
R5104 10k
C5103 STBY
R5103 33k
C5102 220p CH
Q5105
2SC2705(OY)
R5105 1.5k
C5104 1000p
R5106 820
R5112 220
R5132 150
C5132 0.22/16
C5124 10/63
C5122 STBY
C5117 330/10
R5131 150 RN D
R5130 1k RN D
R5129 33k(1/10W) RN D
C5115 CH 22p
C5116 22p CH
C5127 STBY
D5202-D5204 : 1SS355
C5061
R5061
C5062
R5062
C5063
R5063
KN5061
KN5063
CHASSIS
STBY
R5207 2.0k F
C5207 100/10
D5201
UDZS3R6(B)
R5210 150
C5223 10/63
C5221 STBY
R5211 12k RN D
Q5203
2SA1514K(RS)
D5202
Q5204
D5203
R5209 47k (1/2W)
R5208 6.8k
2SA1145(OY)
D5205
UDZS4R7(B)
SBL
C5205 STBY
C5206 STBY
C5209 10/100
D5206
Q5202
IMT4
C5208 CH 4p/200
ACG7057
D5204
(SB)
R5201 1k
C5201 4.7/50
R5202 220
Q5201
2SD2704K
R5204 10k
C5203 STBY
R5203 33k
C5202 220p CH
Q5205
2SC2705(OY)
R5205 1.5k
C5204 1000p
R5206 820
R5212 220
R5232 150
C5232 0.22/16
C5224 10/63
C5222 STBY
C5217 330/10
R5231 150 RN D
R5230 1k RN D
R5229 33k(1/10W) RN D
C5215 CH 22p
C5216 22p CH
C5227 STBY
CN5003
KM250NA7L
GAMP
b
bb
CB
CE
CE
CE
TO POWER AMP IN ASSY
O
CN5605
(C)
(C)
(C)

Q

Q POWER AMP L ASSY (AWX8655)


Pin number of SAP17N/SAP17P
Surface side
①②③④⑤
CP
MUF R5023 4.7 (1/4W)
C5011 SL ACG7056 100p/200
R5025 ACN7132 0.047 (0.5W)
(F)
R5021 100
IC5001 SAP17N(OY)
STBY R5015 R5013 33
R5027 ACN7121 0.18+0.18 (5W+5W)
R5041 47k
R5043 470
Q5041 2SA1255(OY)
D5043
D5041 NP C5041 2.2/50
R5042 22k
R5044 470
R5045 4.7k
R5047 1.2k
R5048 150k D5044
D5042
R5046 4.7k
R5049 10k
R5050 10k
IC5002 SAP17P(OY)
R5022 100
C5012 ACG7056 100p/200 SL
R5026 ACN7132 0.047 (0.5W)
MUF R5024 4.7 (1/4W)
X CN4003
Y1(1/2)
ADX7459 (GREEN)
J5001-5005 ADB7021-
R5123 MUF 4.7 (1/4W)
C5111 SL ACG7056 100p/200
R5125 ACN7132 0.047 (0.5W)
(S)
R5121 100
IC5101 SAP17N(OY)
STBY R5115 R5113 33
R5127 ACN7121 0.18+0.18 (5W+5W)
R5141 47k
R5143 470
Q5141 2SA1255(OY)
D5143
D5141 NP C5141 2.2/50
R5142 22k
R5144 470
R5145 4.7k
R5147 1.2k
R5148 150k D5144
D5142
R5146 4.7k
R5149 10k
R5150 10k
IC5102 SAP17P(OY)
R5122 100
C5112 ACG7056 100p/200 SL
R5126 ACN7132 0.047 (0.5W)
MUF R5124 4.7 (1/4W)
X CN4005
Y3(1/2)
ADX7458 (PURPLE)
VH+
KN5051 STBY
VNF1084 (CHASSIS)
C5053 R5051
Y5(1/3) ADX7404 (RED) VL+
Y5(2/3) ADX7404 (BLACK) GAMPL
Y5(3/3) ADX7404 (BLUE) VL-
GAMP
C5051 10/100
C5052 10/100
X CN4102
R5223 MUF 4.7 (1/4W)
C5211 SL ACG7056 100p/200
R5225 ACN7132 0.047 (0.5W)
(SB)
R5221 100
IC5201 SAP17N(OY)
STBY R5215 R5213 33
R5227 ACN7121 0.18+0.18 (5W+5W)
R5241 47k
R5243 470
Q5241 2SA1255(OY)
D5243
D5241 NP C5241 2.2/50
VH-
X CN4005
Y3(2/2)
ADX7458 (GRAY)
R5242 22k
R5244 470
R5245 4.7k
R5247 1.2k
R5248 150k D5244
D5242
R5246 4.7k
R5249 10k
R5250 10k
IC5202 SAP17P(OY)
R5222 100
C5212 ACG7056 100p/200 SL
R5226 0.047 (0.5W) ACN7132
MUF R5224 4.7 (1/4W)
Q5272
Q5271
DC_DET R5271 C5271
DC STBY
DC OL WT
C5611 ACG7056 100p/200 SL
R5621 100
R5292 0.047 (0.5W) ACN7132
IC5601 SAP17N(OY)
R5615 STBY
R5613 33
C

(F) : AUDIO SIGNAL ROUTE(F)

(C) : AUDIO SIGNAL ROUTE(C)

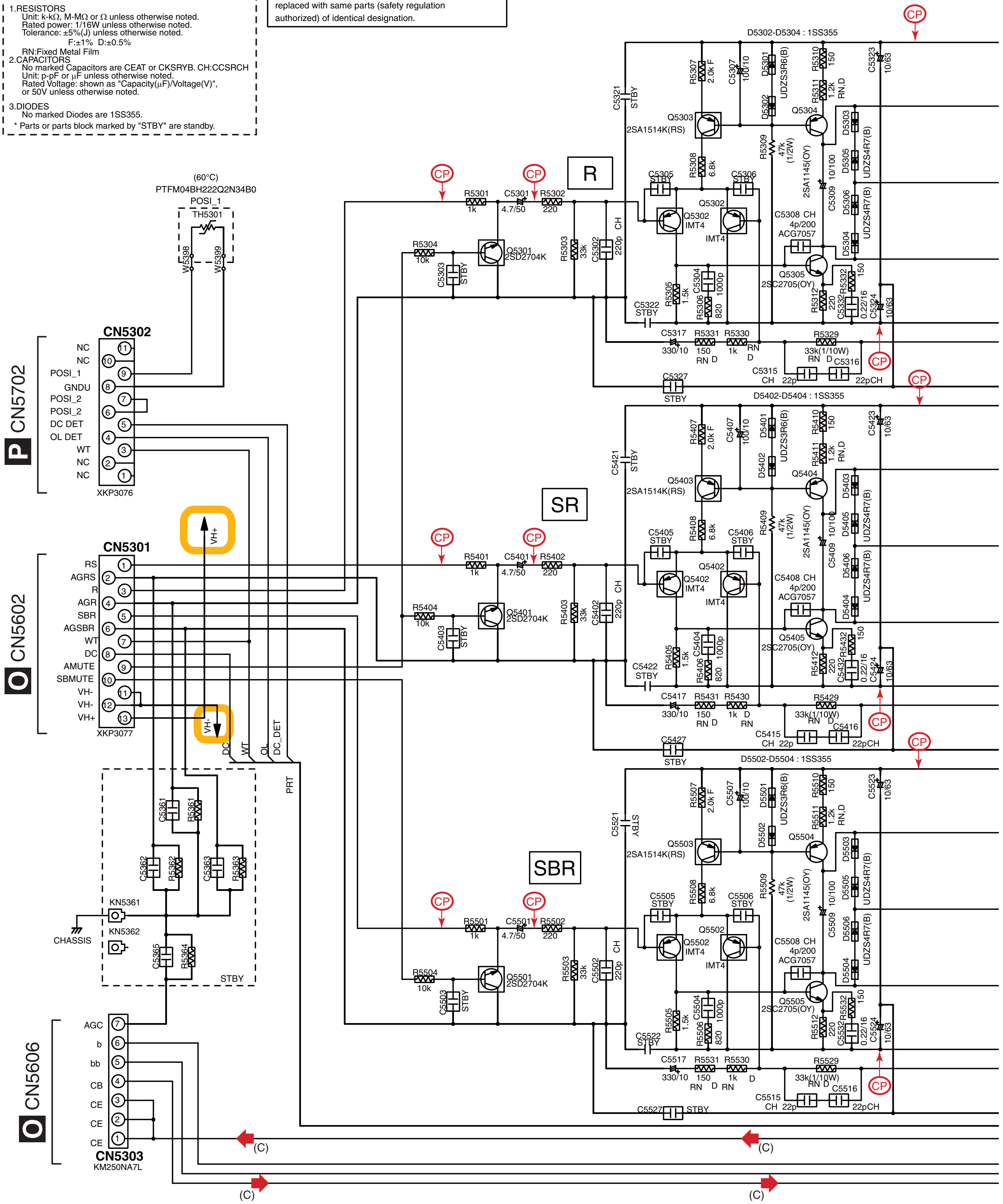
(S) : AUDIO SIGNAL ROUTE(S)

(SB) : AUDIO SIGNAL ROUTE(SB)

10.25 POWER AMP R ASSY

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
F:±1% D:±0.5%
RN:Fixed Metal Film
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. CH:CCSRCH
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

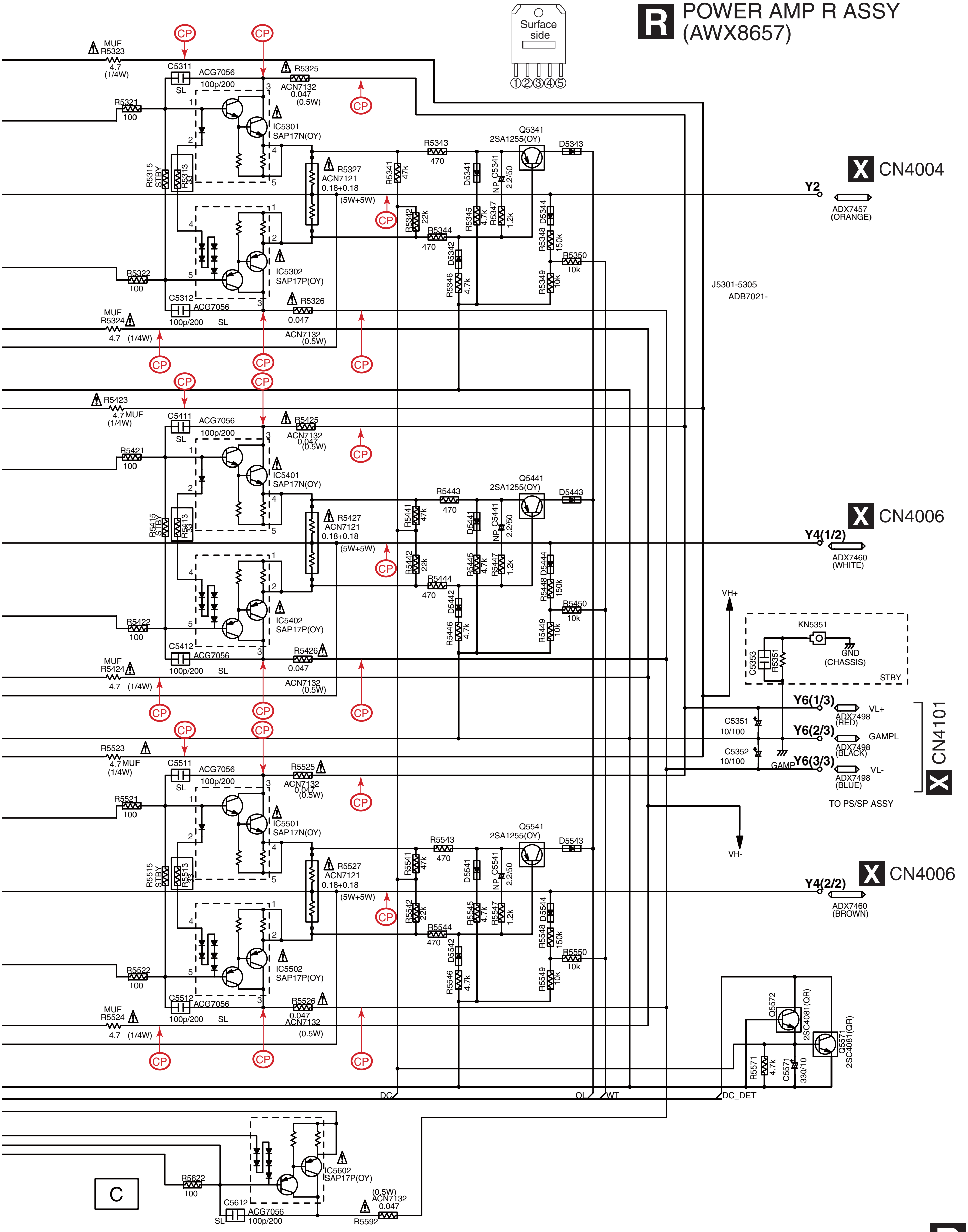


CP
D5302-D5304 : 1SS355
R5307 2.0k F
C5307 100/10
D5301
UDZS3R6(B)
R5310 150
R5311 1.2k RN,D
C5323 10/63
C5321 STBY
Q5303 2SA1514K(RS)
D5302
Q5304
D5303
R5309 47k (1/2W)
2SA1145(OY)
D5305
UDZS4R7(B)
R5308 6.8k
C5305 STBY
C5306 STBY
Q5302
Q5302 IMT4
IMT4
C5309 10/100
D5306
R
R5301 1k
C5301 4.7/50
R5302 220
C5308 CH 4p/200
ACG7057
D5304
R5304 10k
Q5301 2SD2704K
C5303 STBY
R5303 33k
C5302 220p CH
Q5305 2SC2705(OY)
R5332 150
R5305 1.5k
C5304 1000p
R5306 820
R5312 220
C5332 0.22/16
C5324 10/63
C5322 STBY
C5317 330/10
R5331 150 RN D
R5330 1k RN D
R5329 33k(1/10W) RN D
C5316
C5315 CH 22p
22pCH
C5327 STBY
(60°C)
PTFM04BH222Q2N34B0
POSI_1
TH5301
W5398
W5399
CN5302
NC
NC
POSI_1
GNDU
POSI_2
POSI_2
DC DET
OL DET
WT
NC
NC
XKP3076
P CN5702
D5402-D5404 : 1SS355
R5407 2.0k F
C5407 100/10
D5401
UDZS3R6(B)
R5410 150
R5411 1.2k RN,D
C5423 10/63
C5421 STBY
Q5403 2SA1514K(RS)
D5402
Q5404
D5403
R5409 47k (1/2W)
2SA1145(OY)
D5405
UDZS4R7(B)
R5408 6.8k
C5405 STBY
C5406 STBY
Q5402
Q5402 IMT4
IMT4
C5409 10/100
D5406
SR
R5401 1k
C5401 4.7/50
R5402 220
C5408 CH 4p/200
ACG7057
D5404
R5404 10k
Q5401 2SD2704K
C5403 STBY
R5403 33k
C5402 220p CH
Q5405 2SC2705(OY)
R5432 150
R5405 1.5k
C5404 1000p
R5406 820
R5412 220
C5432 0.22/16
C5424 10/63
C5422 STBY
C5417 330/10
R5431 150 RN D
R5430 1k D RN
R5429 33k(1/10W) RN D
C5416
C5415 CH 22p
22pCH
C5427 STBY
CN5301
RS
AGRS
R
AGR
SBR
AGSBR
WT
DC
AMUTE
SBMUTE
VH-
VH-
VH+
XKP3077
O CN5602
VH+
VH-
DC
WT
OL
DC_DET
PRT
C5361
R5361
C5362
R5362
C5363
R5363
KN5361
KN5362
CHASSIS
C5365
R5364
STBY
D5502-D5504 : 1SS355
R5507 2.0k F
C5507 100/10
D5501
UDZS3R6(B)
R5510 150
R5511 1.2k RN,D
C5523 10/63
C5521 STBY
Q5503 2SA1514K(RS)
D5502
Q5504
D5503
R5509 47k (1/2W)
2SA1145(OY)
D5505
UDZS4R7(B)
SBR
R5508 6.8k
C5505 STBY
C5506 STBY
Q5502
Q5502 IMT4
IMT4
C5509 10/100
D5506
R5501 1k
C5501 4.7/50
R5502 220
C5508 CH 4p/200
ACG7057
D5504
R5504 10k
Q5501 2SD2704K
C5503 STBY
R5503 33k
C5502 220p CH
Q5505 2SC2705(OY)
R5532 150
R5505 1.5k
C5504 1000p
R5506 820
R5512 220
C5532 0.22/16
C5524 10/63
C5522 STBY
C5517 330/10
R5531 150 RN D
R5530 1k RN D
R5529 33k(1/10W) RN D
C5516
C5515 CH 22p
22pCH
C5527 STBY
AGC
b
bb
CB
CE
CE
CE
CN5303
KM250NA7L
O CN5606
(C)
(C)
(C)
(C)

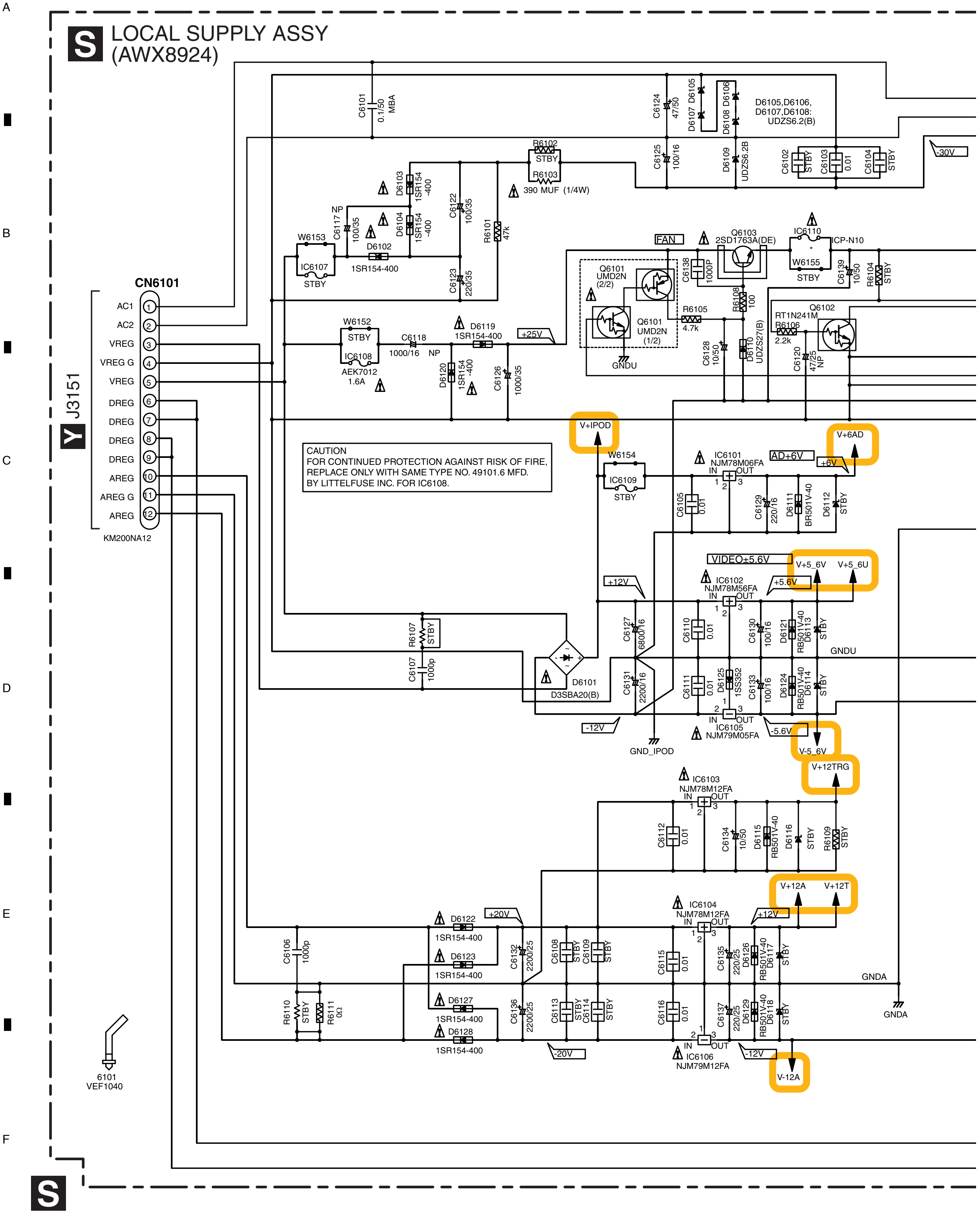
(C) : AUDIO SIGNAL ROUTE(C)

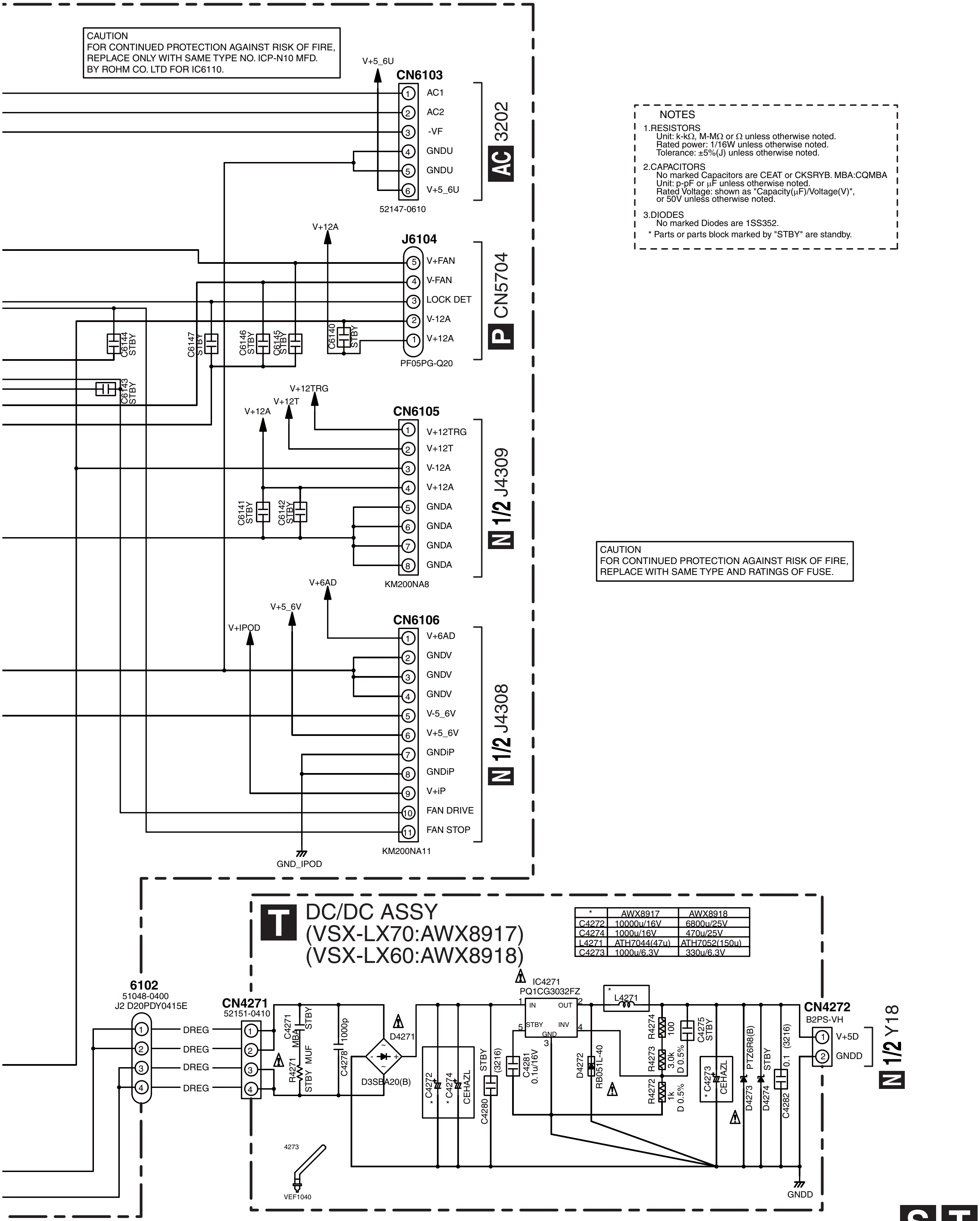
CAUTION
Do not touch any points on the PCB other than CP with an oscilloscope/tester while power is applied.
(It may damage the amplifier due to the oscillation generated.)

R POWER AMP R ASSY (AWX8657)


Surface side
①②③④⑤
MUF R5323 4.7 (1/4W)
CP
C5311 100p/200 SL
ACG7056
R5325 ACN7132 0.047 (0.5W)
R5321 100
IC5301 SAP17N(OY)
R5315 STBY
R5313 33
R5327 ACN7121 0.18+0.18 (5W+5W)
R5343 470
Q5341 2SA1255(OY)
D5343
R5341 47k
D5341
NP C5341 2.2/50
R5342 22k
R5344 470
R5345 4.7k
R5347 1.2k
D5344
R5348 150k
R5350 10k
D5342
R5346 4.7k
R5349 10k
IC5302 SAP17P(OY)
R5322 100
C5312 ACG7056 100p/200 SL
R5326 0.047 ACN7132 (0.5W)
MUF R5324 4.7 (1/4W)
X CN4004
Y2
ADX7457 (ORANGE)
J5301-5305
ADB7021-
R5423 4.7 MUF (1/4W)
C5411 100p/200 SL
ACG7056
R5425 ACN7132 0.047 (0.5W)
R5421 100
IC5401 SAP17N(OY)
R5415 STBY
R5413 33
R5427 ACN7121 0.18+0.18 (5W+5W)
R5443 470
Q5441 2SA1255(OY)
D5443
R5441 47k
D5441
NP C5441 2.2/50
R5442 22k
R5444 470
R5445 4.7k
R5447 1.2k
D5444
R5448 150k
R5450 10k
D5442
R5446 4.7k
R5449 10k
IC5402 SAP17P(OY)
R5422 100
C5412 ACG7056 100p/200 SL
R5426 0.047 ACN7132 (0.5W)
MUF R5424 4.7 (1/4W)
X CN4006
Y4(1/2)
ADX7460 (WHITE)
VH+
KN5351
GND (CHASSIS)
C5353
R5351
STBY
Y6(1/3) VL+
ADX7498 (RED)
C5351 10/100
Y6(2/3) GAMPL
ADX7498 (BLACK)
C5352 10/100
GAMP
Y6(3/3) VL-
ADX7498 (BLUE)
X CN4101
TO PS/SP ASSY
VH-
R5523 4.7 MUF (1/4W)
C5511 100p/200 SL
ACG7056
R5525 ACN7132 0.047 (0.5W)
R5521 100
IC5501 SAP17N(OY)
R5515 STBY
R5513 33
R5527 ACN7121 0.18+0.18 (5W+5W)
R5543 470
Q5541 2SA1255(OY)
D5543
R5541 47k
D5541
NP C5541 2.2/50
R5542 22k
R5544 470
R5545 4.7k
R5547 1.2k
D5544
R5548 150k
R5550 10k
D5542
R5546 4.7k
R5549 10k
IC5502 SAP17P(OY)
R5522 100
C5512 ACG7056 100p/200 SL
R5526 0.047 ACN7132 (0.5W)
MUF R5524 4.7 (1/4W)
X CN4006
Y4(2/2)
ADX7460 (BROWN)
Q5572 2SC4081(QR)
Q5571 2SC4081(QR)
R5571 4.7k
C5571 330/10
DC
OL
WT
DC_DET
IC5602 SAP17P(OY)
R5622 100
C5612 ACG7056 100p/200 SL
(0.5W) ACN7132 0.047 R5592
C

10.26 LOCAL SUPPLY and DC/DC ASSYS


A
B
C
D
E
F
S
LOCAL SUPPLY ASSY
(AWX8924)
Y J3151
CN6101
AC1
AC2
VREG
VREG G
VREG
DREG
DREG
DREG
DREG
AREG
AREG G
AREG
KM200NA12
C6101
0.1/50
MBA
C6124
47/50
D6107 D6105
D6108 D6106
D6105,D6106,
D6107,D6108:
UDZS6.2(B)
-30V
C6125
100/16
D6109
UDZS6.2B
C6102
STBY
C6103
0.01
C6104
STBY
R6102
STBY
R6103
390 MUF (1/4W)
D6103
1SR154
-400
D6104
1SR154
-400
C6122
100/35
NP
C6117
100/35
W6153
IC6107
STBY
D6102
1SR154-400
C6123
220/35
R6101
47k
FAN
Q6103
2SD1763A(DE)
IC6110
ICP-N10
W6155
STBY
C6139
10/50
R6104
STBY
Q6101
UMD2N
(2/2)
C6138
1000P
Q6101
UMD2N
(1/2)
R6105
4.7k
R6108
100
GNDU
C6128
10/50
D6110
UDZS27(B)
RT1N241M
Q6102
R6106
2.2k
C6120
47/25
NP
W6152
STBY
IC6108
AEK7012
1.6A
C6118
1000/16
NP
D6119
1SR154-400
+25V
D6120
1SR154
-400
C6126
1000/35
V+IPOD
V+6AD
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD.
BY LITTELFUSE INC. FOR IC6108.
W6154
IC6109
STBY
IC6101
NJM78M06FA
AD+6V
+6V
IN
OUT
1
2
3
C6105
0.01
C6129
220/16
D6111
BR501V-40
D6112
STBY
VIDEO+5.6V
V+5_6V
V+5_6U
+12V
IC6102
NJM78M56FA
+5.6V
C6127
6800/16
C6110
0.01
C6130
100/16
D6121
RB501V-40
D6113
STBY
GNDU
R6107
STBY
C6107
1000p
D6101
D3SBA20(B)
C6131
2200/16
C6111
0.01
D6125
1SS352
C6133
100/16
D6124
RB501V-40
D6114
STBY
-12V
IC6105
NJM79M05FA
-5.6V
V-5_6V
GND_IPOD
V+12TRG
IC6103
NJM78M12FA
C6112
0.01
C6134
10/50
D6115
RB501V-40
D6116
STBY
R6109
STBY
V+12A
V+12T
IC6104
NJM78M12FA
+12V
D6122
1SR154-400
+20V
D6123
1SR154-400
C6106
1000p
C6132
2200/25
C6108
STBY
C6109
STBY
C6115
0.01
C6135
220/25
D6126
RB501V-40
D6117
STBY
GNDA
R6110
STBY
R6111
0Ω
D6127
1SR154-400
D6128
1SR154-400
C6136
2200/25
C6113
STBY
C6114
STBY
C6116
0.01
C6137
220/25
D6129
RB501V-40
D6118
STBY
GNDA
-20V
IC6106
NJM79M12FA
-12V
V-12A
6101
VEF1040
S



CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE NO. ICP-N10 MFD.
BY ROHM CO. LTD FOR IC6110.

NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. MBA:CQMBA
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)",
or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

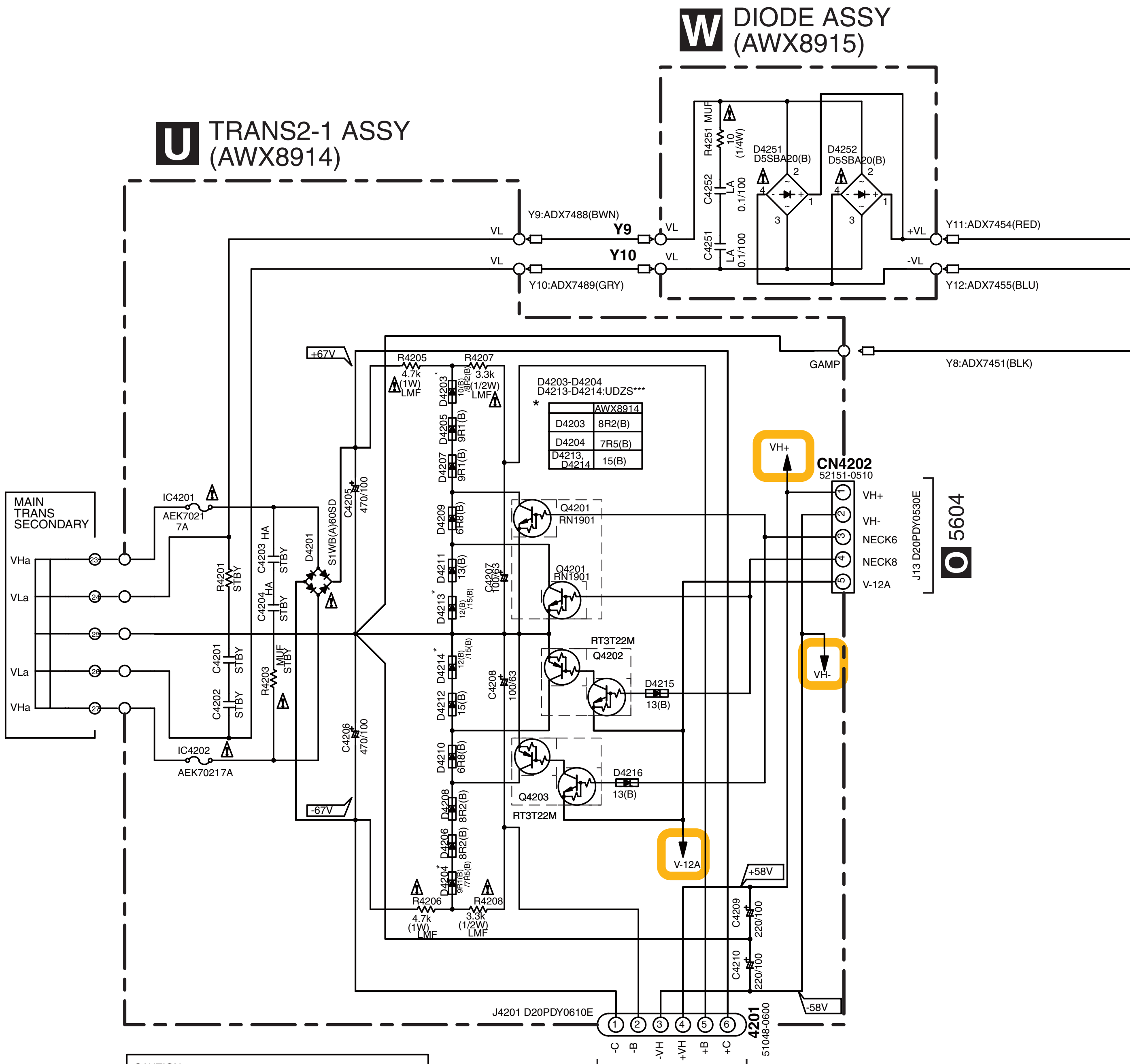
* Parts or parts block marked by "STBY" are standby.

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

*	AWX8917	AWX8918
C4272	10000u/16V	6800u/25V
C4274	1000u/16V	470u/25V
L4271	ATH7044(47u)	ATH7052(150u)
C4273	1000u/6.3V	330u/6.3V

V+5_6U
CN6103
1 AC1
2 AC2
3 -VF
4 GNDU
5 GNDU
6 V+5_6U
52147-0610
AC 3202
V+12A
J6104
5 V+FAN
4 V-FAN
3 LOCK DET
2 V-12A
1 V+12A
PF05PG-Q20
P CN5704
C6144 STBY
C6147 STBY
C6146 STBY
C6145 STBY
C6140 STBY
C6143 STBY
V+12TRG
V+12T
V+12A
CN6105
1 V+12TRG
2 V+12T
3 V-12A
4 V+12A
5 GNDA
6 GNDA
7 GNDA
8 GNDA
KM200NA8
C6141 STBY
C6142 STBY
N 1/2 J4309
V+6AD
V+5_6V
V+IPOD
CN6106
1 V+6AD
2 GNDV
3 GNDV
4 GNDV
5 V-5_6V
6 V+5_6V
7 GNDiP
8 GNDiP
9 V+iP
10 FAN DRIVE
11 FAN STOP
KM200NA11
GND_IPOD
N 1/2 J4308
T DC/DC ASSY
(VSX-LX70:AWX8917)
(VSX-LX60:AWX8918)
6102
51048-0400
J2 D20PDY0415E
1 DREG
2 DREG
3 DREG
4 DREG
CN4271
52151-0410
C4271 MBA STBY
R4271 STBY MUF
1000p C4278
D4271
D3SBA20(B)
* C4272
* C4274
CEHAZL
C4280 STBY (3216)
C4281 0.1u/16V
IC4271
PQ1CG3032FZ
1 IN
2 OUT
5 STBY
4 INV
3 GND
* L4271
D4272 RB051L-40
R4274 100
R4273 3.0k D 0.5%
R4272 1k D 0.5%
C4275 STBY
* C4273 CEHAZL
D4273 PTZ6R8(B)
D4274 STBY
C4282 0.1 (3216)
CN4272
B2PS-VH
1 V+5D
2 GNDD
N 1/2 Y18
GNDD
4273
VEF1040
A
B
C
D
E
F

10.27 TRANS2-1, VH-TR, DIODE and SP/PS ASSYS


W DIODE ASSY (AWX8915)
U TRANS2-1 ASSY (AWX8914)
MAIN TRANS SECONDARY
VHa
VLa
VLa
VHa
IC4201 AEK7021 7A
IC4202 AEK70217A
R4201 STBY
C4203 HA STBY
C4204 HA STBY
C4201 STBY
C4202 STBY
R4203 MUF STBY
D4201 S1WB(A)60SD
C4205 470/100
C4206 470/100
+67V
-67V
R4205 4.7k (1W) LMF
R4207 3.3k (1/2W) LMF
R4206 4.7k (1W) LMF
R4208 3.3k (1/2W) LMF
D4203 10(B)/8R2(B)
D4205 9R1(B)
D4207 9R1(B)
D4209 6R8(B)
D4211 13(B)
D4213 12(B)/15(B)
D4214 12(B)/15(B)
D4212 15(B)
D4210 6R8(B)
D4208 8R2(B)
D4206 8R2(B)
D4204 9R1(B)/7R5(B)
C4207 100/63
C4208 100/63
D4203-D4204
D4213-D4214:UDZS***
AWX8914
D4203 8R2(B)
D4204 7R5(B)
D4213, D4214 15(B)
Q4201 RN1901
Q4201 RN1901
RT3T22M Q4202
D4215 13(B)
D4216 13(B)
Q4203 RT3T22M
V-12A
+58V
-58V
C4209 220/100
C4210 220/100
VH+
VH-
CN4202 52151-0510
VH+
VH-
NECK6
NECK8
V-12A
J13 D20PDY0530E
O 5604
R4251 MUF 10 (1/4W)
C4252 LA 0.1/100
C4251 LA 0.1/100
D4251 D5SBA20(B)
D4252 D5SBA20(B)
Y9:ADX7488(BWN)
Y9
Y10
Y10:ADX7489(GRY)
VL
VL
VL
VL
+VL
-VL
Y11:ADX7454(RED)
Y12:ADX7455(BLU)
GAMP
Y8:ADX7451(BLK)
J4201 D20PDY0610E
4201 51048-0600
-C -B -VH +VH +B +C

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. 491007 MFD. BY LITTELFUSE INC. FOR IC4201-4202.

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. ICP-N15 MFD. BY ROHM CO.,LTD FOR IC4261-4262.

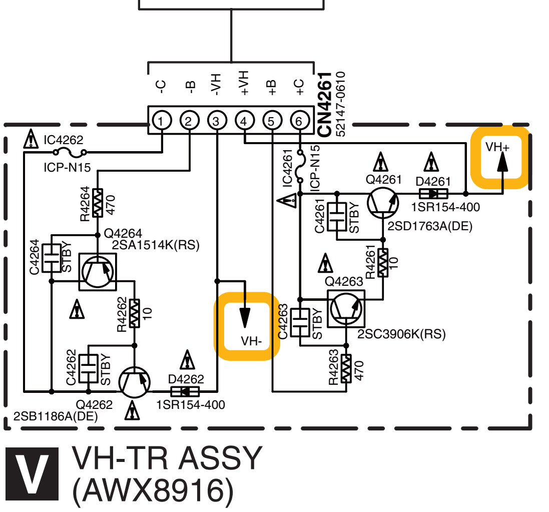
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

NOTES

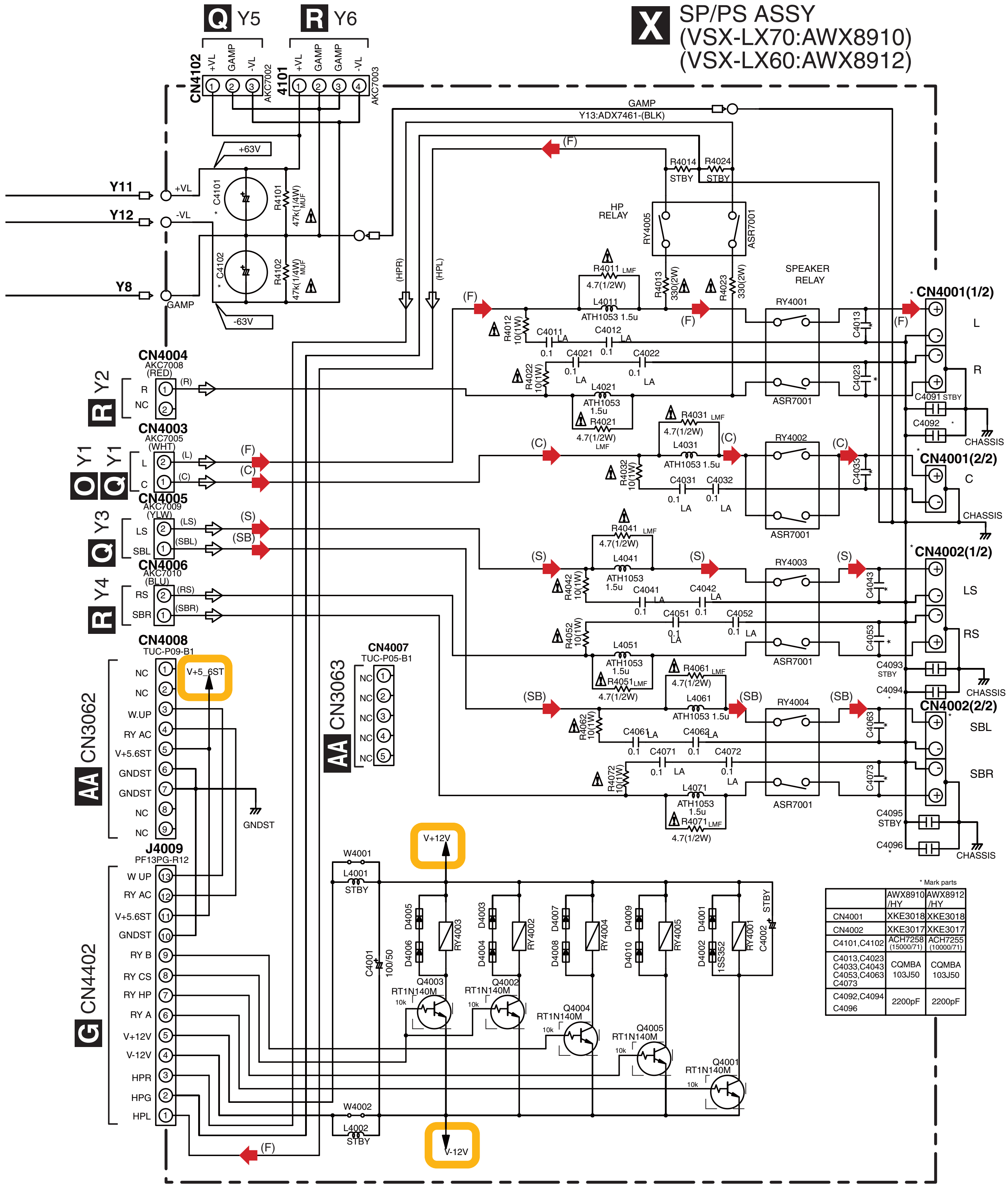
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.
MBA:CQMBA, LA:CFTLA, HA:CQHA

3.DIODES
No marked Diodes are 1SS352.
* Parts or parts block marked by "STBY" are standby.


-C -B -VH +VH +B +C
CN4261 52147-0610
IC4262 ICP-N15
R4264 470
C4264 STBY
Q4264 2SA1514K(RS)
R4262 10
C4262 STBY
Q4262 2SB1186A(DE)
D4262 1SR154-400
VH-
IC4261 ICP-N15
C4261 STBY
Q4261 2SD1763A(DE)
D4261 1SR154-400
VH+
R4261 10
Q4263 2SC3906K(RS)
C4263 STBY
R4263 470
V VH-TR ASSY (AWX8916)

X SP/PS ASSY
(VSX-LX70:AWX8910)
(VSX-LX60:AWX8912)


Q Y5
R Y6
CN4102
+VL
GAMP
-VL
AKC7002
4101
+VL
GAMP
GAMP
-VL
AKC7003
GAMP
Y13:ADX7461-(BLK)
+63V
-63V
Y11
+VL
Y12
-VL
Y8
GAMP
C4101
C4102
R4101 47k(1/4W) MUF
R4102 47k(1/4W) MUF
(HPR)
(HPL)
(F)
R4014 STBY
R4024 STBY
HP RELAY
RY4005
ASR7001
R4011 LMF 4.7(1/2W)
L4011 ATH1053 1.5u
R4013 330(2W)
R4023 330(2W)
SPEAKER RELAY
RY4001
ASR7001
CN4001(1/2)
L
R
C4091 STBY
C4092
CHASSIS
CN4001(2/2)
C
CN4002(1/2)
LS
RS
CN4002(2/2)
SBL
SBR
C4093 STBY
C4094
C4095 STBY
C4096
RY4002
RY4003
RY4004
R4012 10(1W)
R4022 10(1W)
R4032 10(1W)
R4042 10(1W)
R4052 10(1W)
R4062 10(1W)
R4072 10(1W)
C4011 0.1 LA
C4012 0.1 LA
C4021 0.1 LA
C4022 0.1 LA
C4031 0.1 LA
C4032 0.1 LA
C4041 0.1 LA
C4042 0.1 LA
C4051 0.1 LA
C4052 0.1 LA
C4061 0.1 LA
C4062 0.1 LA
C4071 0.1 LA
C4072 0.1 LA
L4021 ATH1053 1.5u
R4021 4.7(1/2W) LMF
R4031 LMF 4.7(1/2W)
L4031 ATH1053 1.5u
R4041 LMF 4.7(1/2W)
L4041 ATH1053 1.5u
L4051 ATH1053 1.5u
R4051 LMF 4.7(1/2W)
R4061 LMF 4.7(1/2W)
L4061 ATH1053 1.5u
L4071 ATH1053 1.5u
R4071 LMF 4.7(1/2W)
C4013
C4023
C4033
C4043
C4053
C4063
C4073
(C)
(S)
(SB)
CN4004 AKC7008 (RED)
R Y2
R
NC
CN4003 AKC7005 (WHT)
O Y1
Q Y1
L
C
CN4005 AKC7009 (YLW)
Q Y3
LS
SBL
CN4006 AKC7010 (BLU)
R Y4
RS
SBR
(R)
(L)
(LS)
(SBL)
(RS)
(SBR)
CN4008 TUC-P09-B1
AA CN3062
NC
NC
W.UP
RY AC
V+5.6ST
GNDST
GNDST
NC
NC
V+5_6ST
GNDST
CN4007 TUC-P05-B1
AA CN3063
NC
NC
NC
NC
NC
J4009 PF13PG-R12
G CN4402
W UP
RY AC
V+5.6ST
GNDST
RY B
RY CS
RY HP
RY A
V+12V
V-12V
HPR
HPG
HPL
V+12V
V-12V
W4001
L4001 STBY
W4002
L4002 STBY
C4001 100/50
C4002
STBY
D4005
D4006
RY4003
D4003
D4004
RY4002
D4007
D4008
RY4004
D4009
D4010
RY4005
D4001
D4002
1SS352
RY4001
Q4003 RT1N140M 10k
Q4002 RT1N140M 10k
Q4004 RT1N140M 10k
Q4005 RT1N140M 10k
Q4001 RT1N140M 10k

* Mark parts

	AWX8910 /HY	AWX8912 /HY
CN4001	XKE3018	XKE3018
CN4002	XKE3017	XKE3017
C4101,C4102	ACH7258 (15000/71)	ACH7255 (10000/71)
C4013,C4023 C4033,C4043 C4053,C4063 C4073	CQMBA 103J50	CQMBA 103J50
C4092,C4094 C4096	2200pF	2200pF

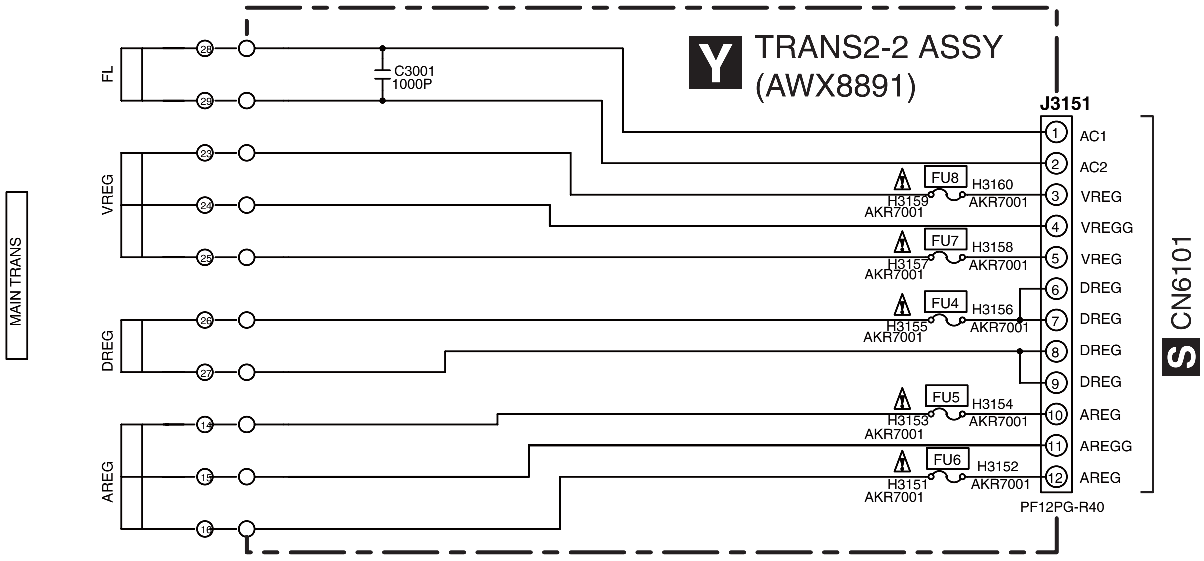
(F): AUDIO SIGNAL ROUTE (F)

(C): AUDIO SIGNAL ROUTE (C)

(S): AUDIO SIGNAL ROUTE (S)

(SB): AUDIO SIGNAL ROUTE (SB)

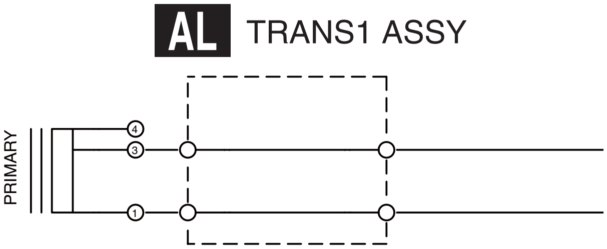
10.28 TRANS2-2,TRANS1 and PRIMARY ASSYS


Y
TRANS2-2 ASSY
(AWX8891)
MAIN TRANS
FL
VREG
DREG
AREG
28
29
23
24
25
26
27
14
15
16
C3001
1000P
J3151
FU8
H3160
H3159
AKR7001
AKR7001
FU7
H3158
H3157
AKR7001
AKR7001
FU4
H3156
H3155
AKR7001
AKR7001
FU5
H3154
H3153
AKR7001
AKR7001
FU6
H3152
H3151
AKR7001
AKR7001
1 AC1
2 AC2
3 VREG
4 VREGG
5 VREG
6 DREG
7 DREG
8 DREG
9 DREG
10 AREG
11 AREGG
12 AREG
PF12PG-R40
S CN6101

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

⚠

	FU1	FU4	FU5,6	FU7,8
HY	T5AL/250V	REK1028 (T4AL/250V)	REK1021 (T800mAL/250V)	REK1026 (T2.5AL/250V)


AL
TRANS1 ASSY
PRIMARY
4
3
1

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

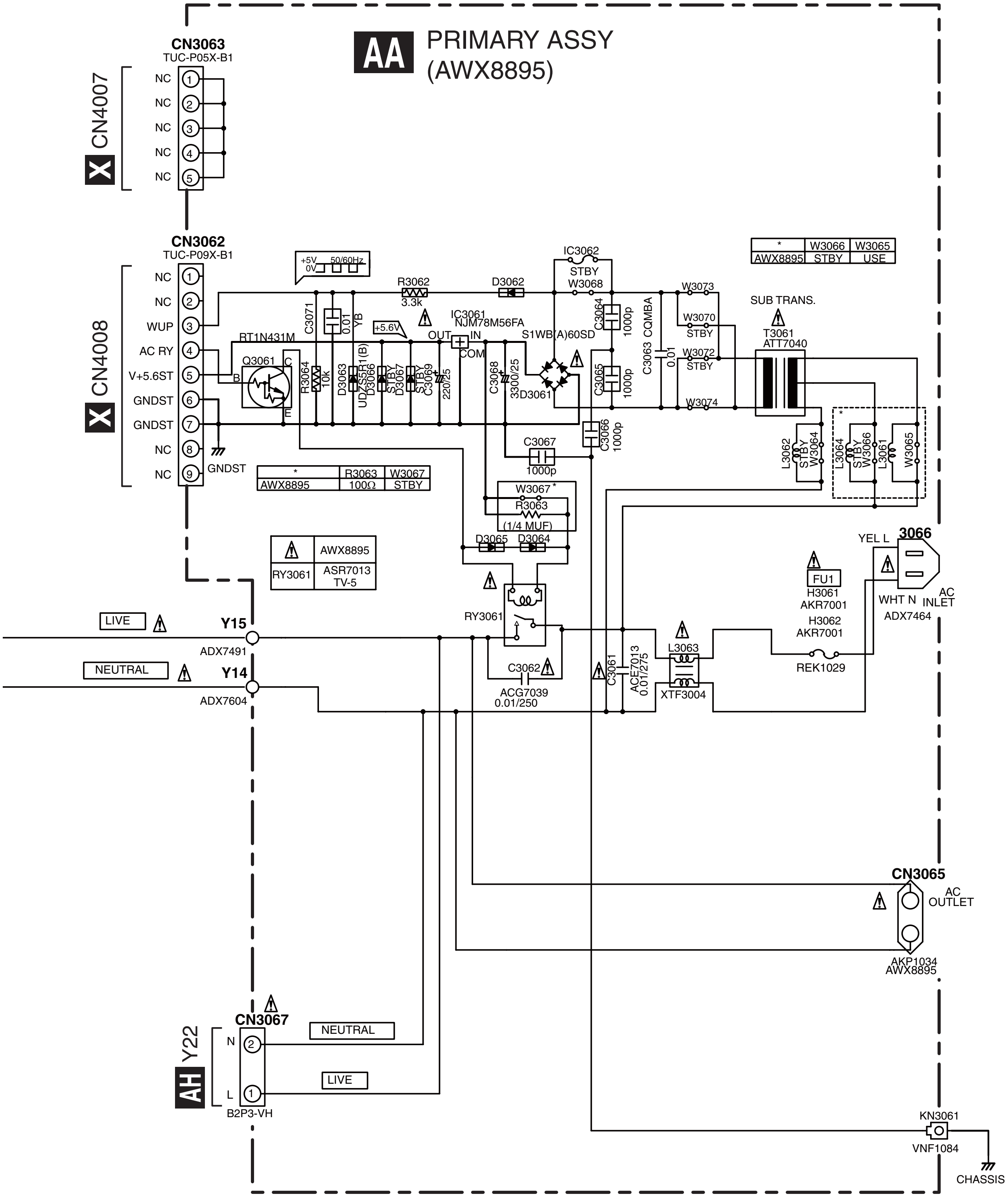
NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

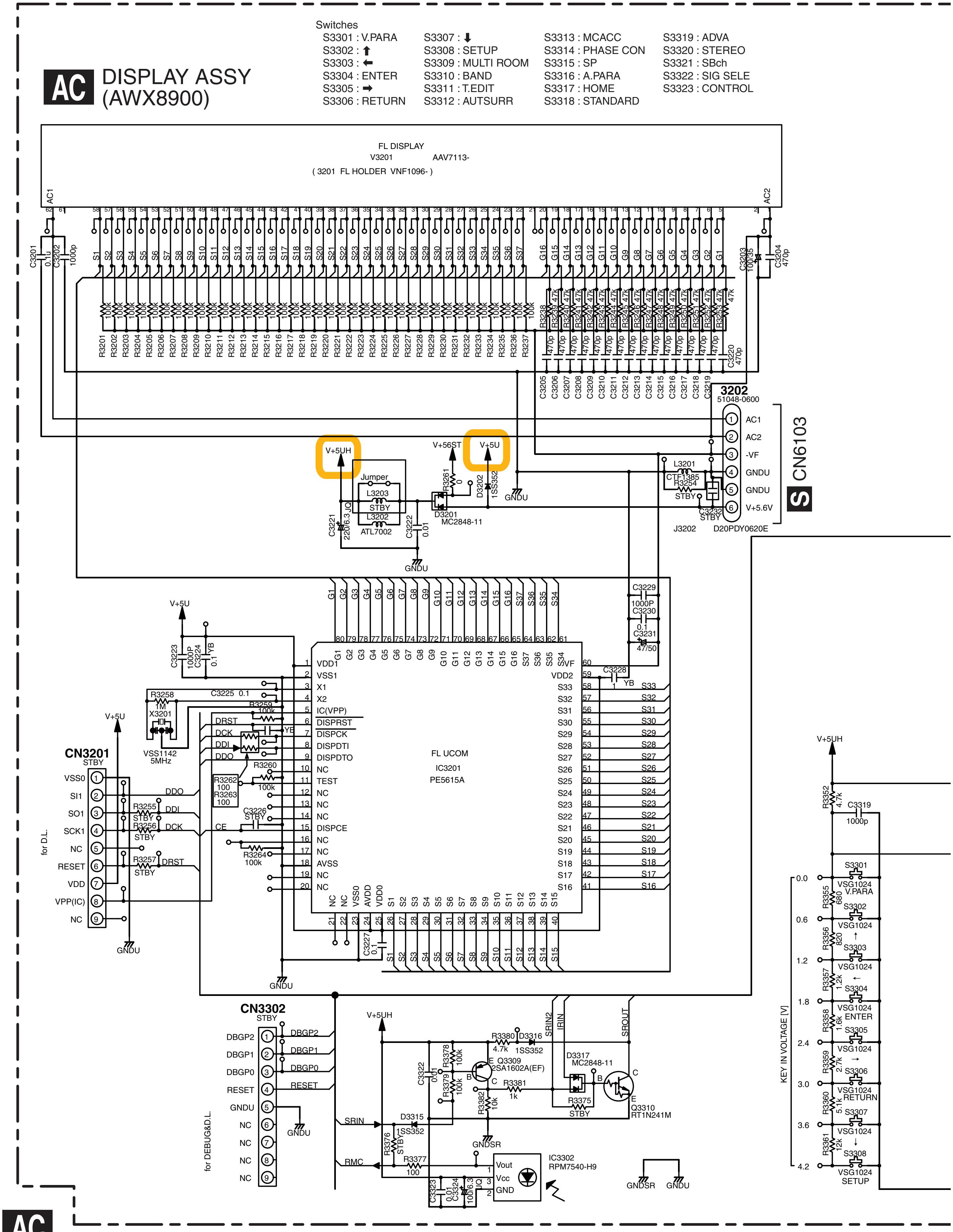
* Parts or parts block marked by "STBY" are standby.



AA PRIMARY ASSY
(AWX8895)
CN3063
TUC-P05X-B1
X CN4007
NC 1
NC 2
NC 3
NC 4
NC 5
CN3062
TUC-P09X-B1
X CN4008
NC 1
NC 2
WUP 3
AC RY 4
V+5.6ST 5
GNDST 6
GNDST 7
NC 8
NC 9
GNDST
+5V 0V 50/60Hz
R3062 3.3k
D3062
IC3062 STBY W3068
C3071
0.01 YB
+5.6V
IC3061 NJM78M56FA
OUT IN COM
RT1N431M
Q3061
B C E
R3064 10k
D3063 UDZS5R1(B)
D3066 STBY
D3067 STBY
C3069 220/25
C3068 3300/25
S1WB(A)60SD
D3061
C3064 1000p
C3065 1000p
C3063 CQMBA 0.01
C3066 1000p
C3067 1000p
W3073
W3070 STBY
W3072 STBY
W3074
SUB TRANS.
T3061 ATT7040
* | W3066 | W3065
AWX8895 | STBY | USE
L3062 STBY W3064
L3064 STBY W3066
L3061 W3065
* | R3063 | W3067
AWX8895 | 100Ω | STBY
W3067*
R3063 (1/4 MUF)
D3065 D3064
AWX8895
RY3061 | ASR7013 TV-5
RY3061
LIVE
Y15
ADX7491
NEUTRAL
Y14
ADX7604
C3062
ACG7039 0.01/250
C3061
ACE7013 0.01/275
L3063
XTF3004
FU1
H3061 AKR7001
H3062 AKR7001
REK1029
YEL L
3066
WHT N
AC INLET
ADX7464
CN3065
AC OUTLET
AKP1034
AWX8895
CN3067
AH Y22
N 2
L 1
B2P3-VH
NEUTRAL
LIVE
KN3061
VNF1084
CHASSIS

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

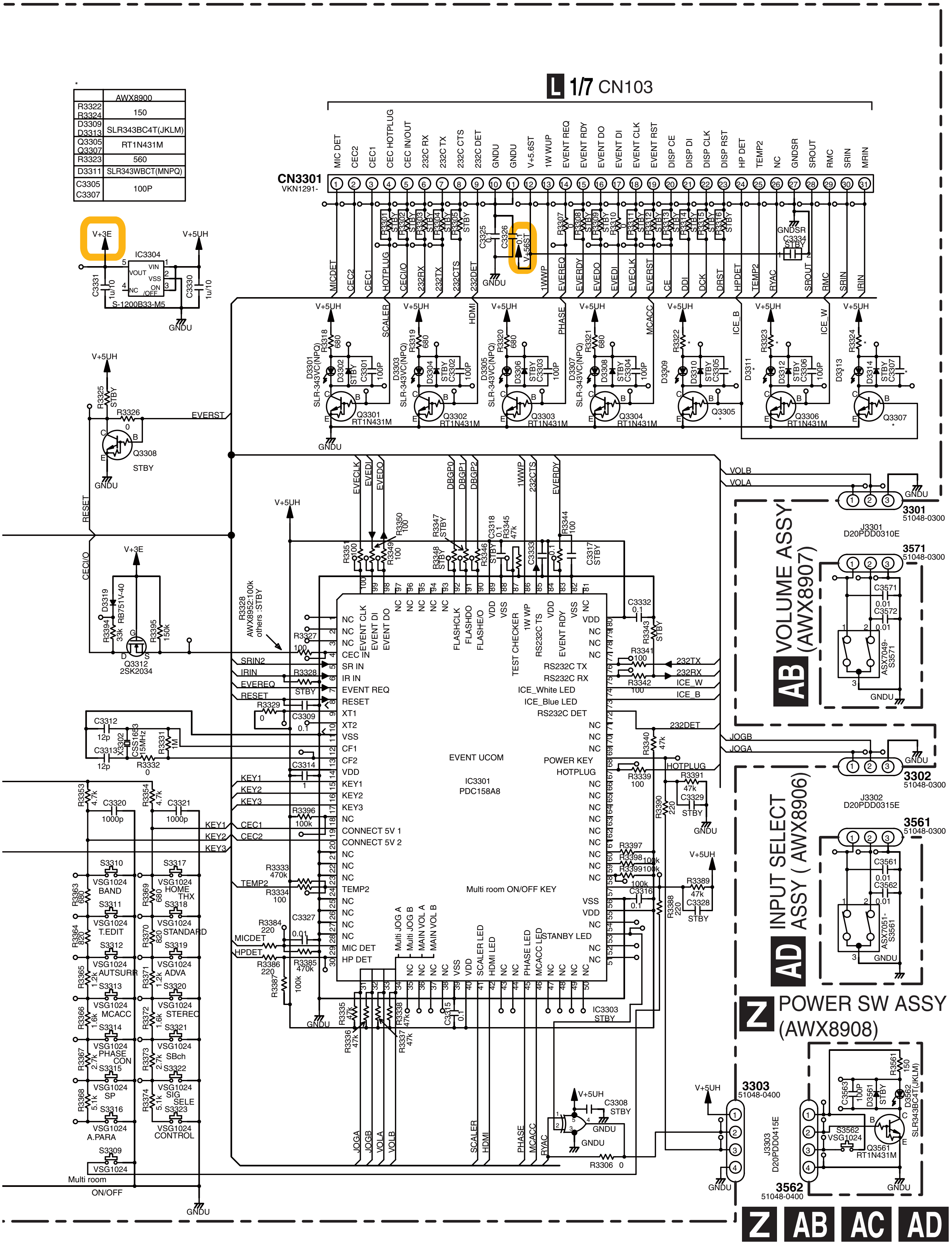
10.29 VOLUME, DISPLAY, POWER SW and INPUT SELECT ASSYS


AC DISPLAY ASSY
(AWX8900)
FL DISPLAY
V3201 AAV7113-
(3201 FL HOLDER VNF1096-)
AC1
AC2
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37
G16 G15 G14 G13 G12 G11 G10 G9 G8 G7 G6 G5 G4 G3 G2 G1
C3201 0.1u
C3202 1000p
C3203 100/35
C3204 470p
R3201 – R3237 100k
R3238 – R3253 47k
C3205 – C3219 470p
C3220 470p
3202
51048-0600
AC1
AC2
-VF
GNDU
GNDU
V+5.6V
CN6103
S
J3202 D20PDY0620E
L3201 CTF1385
R3254
STBY
C3232 STBY
V+5UH
V+56ST
V+5U
Jumper
L3203 STBY
L3202 ATL7002
C3221 220/6.3 UQ
C3222 0.01
R3261 0
D3202 1SS352
D3201 MC2848-11
GNDU
C3229 1000P
C3230 0.1
C3231 47/50
C3228 1 YB
V+5U
C3223 1000P
C3224 0.1 YB
R3258 1M
C3225 0.1
X3201 VSS1142 5MHz
R3259 100k
DRST DCK DDI DDO
R3260 100k
R3262 100
R3263 100
C3226 STBY
CE
R3264 100k
FL UCOM
IC3201
PE5615A
VDD1 VSS1 X1 X2 IC(VPP) DISPRST DISPCK DISPDTI DISPDTO NC TEST NC NC NC DISPCE NC NC AVSS NC NC
VF VDD2 S33 S32 S31 S30 S29 S28 S27 S26 S25 S24 S23 S22 S21 S20 S19 S18 S17 S16
NC NC VSS0 AVDD VDD0
C3227 0.1
CN3201 STBY
VSS0 SI1 SO1 SCK1 NC RESET VDD VPP(IC) NC
for D.L.
R3255 STBY
R3256 STBY
R3257 STBY
GNDU
CN3302 STBY
DBGP2 DBGP1 DBGP0 RESET GNDU NC NC NC NC
for DEBUG&D.L.
V+5UH
C3322 0.01
R3378 100k
R3379 100k
R3380 4.7k
D3316 1SS352
Q3309 2SA1602A(EF)
R3381 1k
R3382 10k
SRIN2 IRIN SROUT
D3317 MC2848-11
R3375 STBY
Q3310 RT1N241M
SRIN
D3315 1SS352
R3376 STBY
R3377 100
RMC
GNDSR
IC3302 RPM7540-H9
Vout Vcc GND
C3323 0.01
C3324 100/6.3 UQ
GNDSR GNDU
V+5UH
R3352 4.7k
C3319 1000p
KEY IN VOLTAGE [V]
0.0 0.6 1.2 1.8 2.4 3.0 3.6 4.2
R3355 680
R3356 820
R3357 1.2k
R3358 1.6k
R3359 2.7k
R3360 5.1k
R3361 12k
S3301 VSG1024 V.PARA
S3302 VSG1024 ↑
S3303 VSG1024 ←
S3304 VSG1024 ENTER
S3305 VSG1024 →
S3306 VSG1024 RETURN
S3307 VSG1024 ↓
S3308 VSG1024 SETUP
A B C D E F
AC

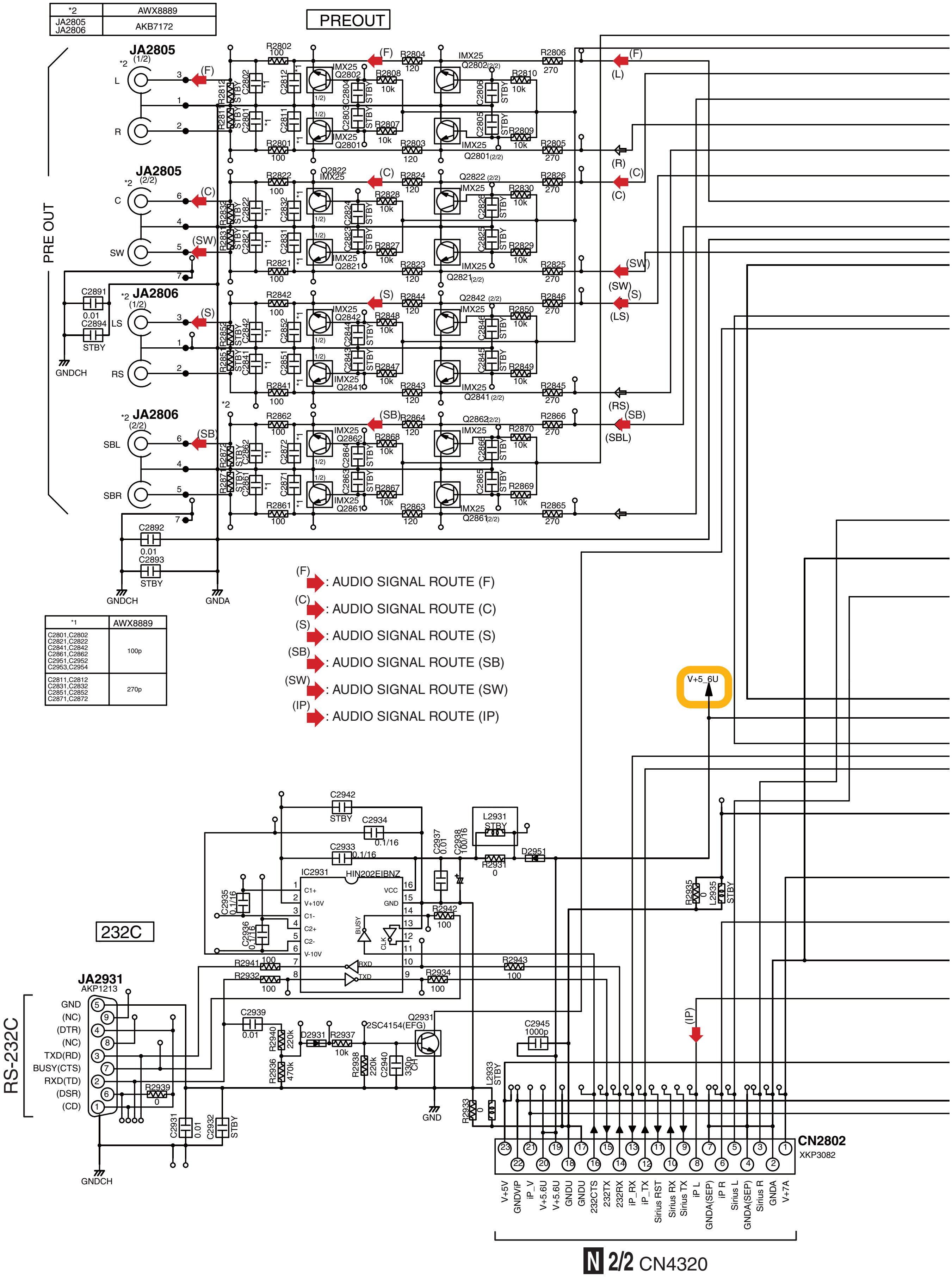
Switches
S3301 : V.PARA
S3302 : ⬆
S3303 : ⬅
S3304 : ENTER
S3305 : ➡
S3306 : RETURN
S3307 : ⬇
S3308 : SETUP
S3309 : MULTI ROOM
S3310 : BAND
S3311 : T.EDIT
S3312 : AUTSURR
S3313 : MCACC
S3314 : PHASE CON
S3315 : SP
S3316 : A.PARA
S3317 : HOME
S3318 : STANDARD
S3319 : ADVA
S3320 : STEREO
S3321 : SBch
S3322 : SIG SELE
S3323 : CONTROL

*

	AWX8900
R3322 R3324	150
D3309 D3313	SLR343BC4T(JKLM)
Q3305 Q3307	RT1N431M
R3323	560
D3311	SLR343WBCT(MNPQ)
C3305 C3307	100P


L 1/7 CN103
CN3301
VKN1291-
MIC DET
CEC2
CEC1
CEC HOTPLUG
CEC IN/OUT
232C RX
232C TX
232C CTS
232C DET
GNDU
V+5.6ST
1W WUP
EVENT REQ
EVENT RDY
EVENT DO
EVENT DI
EVENT CLK
EVENT RST
DISP CE
DISP DI
DISP CLK
DISP RST
HP DET
TEMP2
NC
GNDSR
SROUT
RMC
SRIN
MRIN
V+3E
V+5UH
IC3304
S-1200B33-M5
VIN
VOUT
VSS
ON/OFF
C3331 1u/10
C3330 1u/10
R3325 STBY
R3326 0
EVERST
Q3308 STBY
RESET
CEC/O
D3319 RB751V-40
R3394 33k
R3395 150k
Q3312 2SK2034
D3301 SLR-343VC(NPQ)
Q3301 RT1N431M
Q3302 RT1N431M
Q3303 RT1N431M
Q3304 RT1N431M
Q3305
Q3306 RT1N431M
Q3307
SCALER
HDMI
PHASE
MCACC
ICE_B
ICE_W
IC3301
PDC158A8
EVENT UCOM
POWER KEY
HOTPLUG
Multi room ON/OFF KEY
X3302 CSS1653 15MHz
R3328 AWX8952:100k others :STBY
S3310 VSG1024 BAND
S3311 VSG1024 T.EDIT
S3312 VSG1024 AUTSURR
S3313 VSG1024 MCACC
S3314 VSG1024 PHASE CON
S3315 VSG1024 SP
S3316 VSG1024 A.PARA
S3317 VSG1024 HOME THX
S3318 VSG1024 STANDARD
S3319 VSG1024 ADVA
S3320 VSG1024 STEREO
S3321 VSG1024 SBch
S3322 VSG1024 SIG SELE
S3323 VSG1024 CONTROL
S3309 VSG1024 Multi room ON/OFF
IC3303 STBY
C3308 STBY
R3306 0
3301 51048-0300
J3301 D20PDD0310E
3571 51048-0300
AB VOLUME ASSY (AWX8907)
ASX7049-S3571
3302 51048-0300
J3302 D20PDD0315E
3561 51048-0300
AD INPUT SELECT ASSY (AWX8906)
ASX7051-S3561
Z POWER SW ASSY (AWX8908)
3303 51048-0400
J3303 D20PDD0415E
3562 51048-0400
S3562 VSG1024
Q3561 RT1N431M
D3562 SLR343BC4T(JKLM)
R3561 150
Z AB AC AD

10.30 PREOUT & CONTROL ASSY


PREOUT
PRE OUT
JA2805 (1/2)
JA2805 (2/2)
JA2806 (1/2)
JA2806 (2/2)
L
R
C
SW
LS
RS
SBL
SBR
GNDCH
GNDA
C2891 0.01
C2894 STBY
C2892 0.01
C2893 STBY
IMX25 Q2802
IMX25 Q2801
IMX25 Q2822
IMX25 Q2821
IMX25 Q2842
IMX25 Q2841
IMX25 Q2862
IMX25 Q2861
(F)
(L)
(R)
(C)
(SW)
(S)
(LS)
(RS)
(SB)
(SBL)
V+5_6U
232C
JA2931 AKP1213
RS-232C
GND
(NC)
(DTR)
(NC)
TXD(RD)
BUSY(CTS)
RXD(TD)
(DSR)
(CD)
IC2931 HIN202EIBNZ
C1+
V+10V
C1-
C2+
C2-
V-10V
VCC
GND
BUSY
CLK
RXD
TXD
Q2931 2SC4154(EFG)
L2931 STBY
D2951
D2931
(IP)
CN2802 XKP3082
V+5V
GNDViP
iP_V
V+5.6U
V+5.6U
GNDU
GNDU
232CTS
232TX
232RX
iP_RX
iP_TX
Sirius RST
Sirius RX
Sirius TX
iP L
GNDA(SEP)
iP R
Sirius L
GNDA(SEP)
Sirius R
GNDA
V+7A
N 2/2 CN4320

*2	AWX8889
JA2805 JA2806	AKB7172

(F) : AUDIO SIGNAL ROUTE (F)

(C) : AUDIO SIGNAL ROUTE (C)

(S) : AUDIO SIGNAL ROUTE (S)

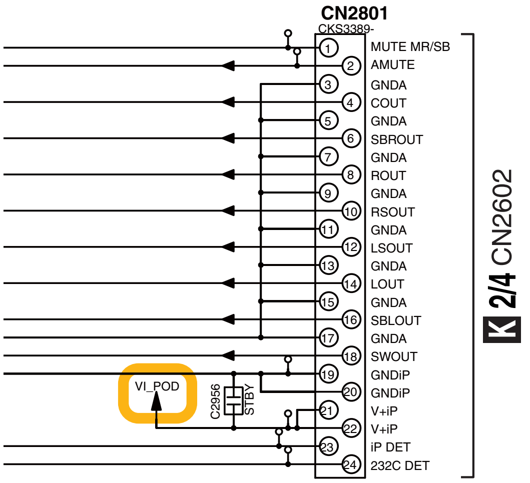
(SB) : AUDIO SIGNAL ROUTE (SB)

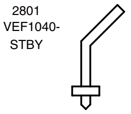
(SW) : AUDIO SIGNAL ROUTE (SW)

(IP) : AUDIO SIGNAL ROUTE (IP)

*1	AWX8889
C2801,C2802 C2821,C2822 C2841,C2842 C2861,C2862 C2951,C2952 C2953,C2954	100p
C2811,C2812 C2831,C2832 C2851,C2852 C2871,C2872	270p

AE PREOUT & CONTROL ASSY (AWX8889)


CN2801
CKS3389-
1 MUTE MR/SB
2 AMUTE
3 GNDA
4 COUT
5 GNDA
6 SBROUT
7 GNDA
8 ROUT
9 GNDA
10 RSOUT
11 GNDA
12 LSOUT
13 GNDA
14 LOUT
15 GNDA
16 SBLOUT
17 GNDA
18 SWOUT
19 GNDiP
20 GNDiP
21 V+iP
22 V+iP
23 iP DET
24 232C DET
K 2/4 CN2602
VI_POD
C2956
STBY

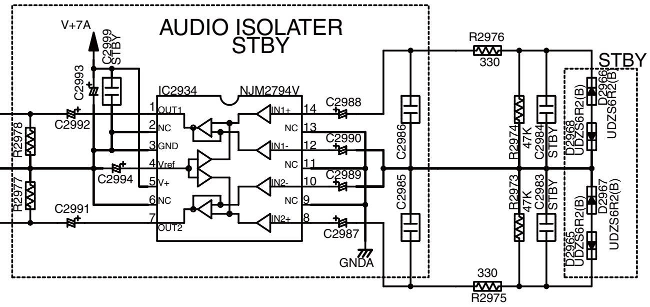

2801
VEF1040-
STBY

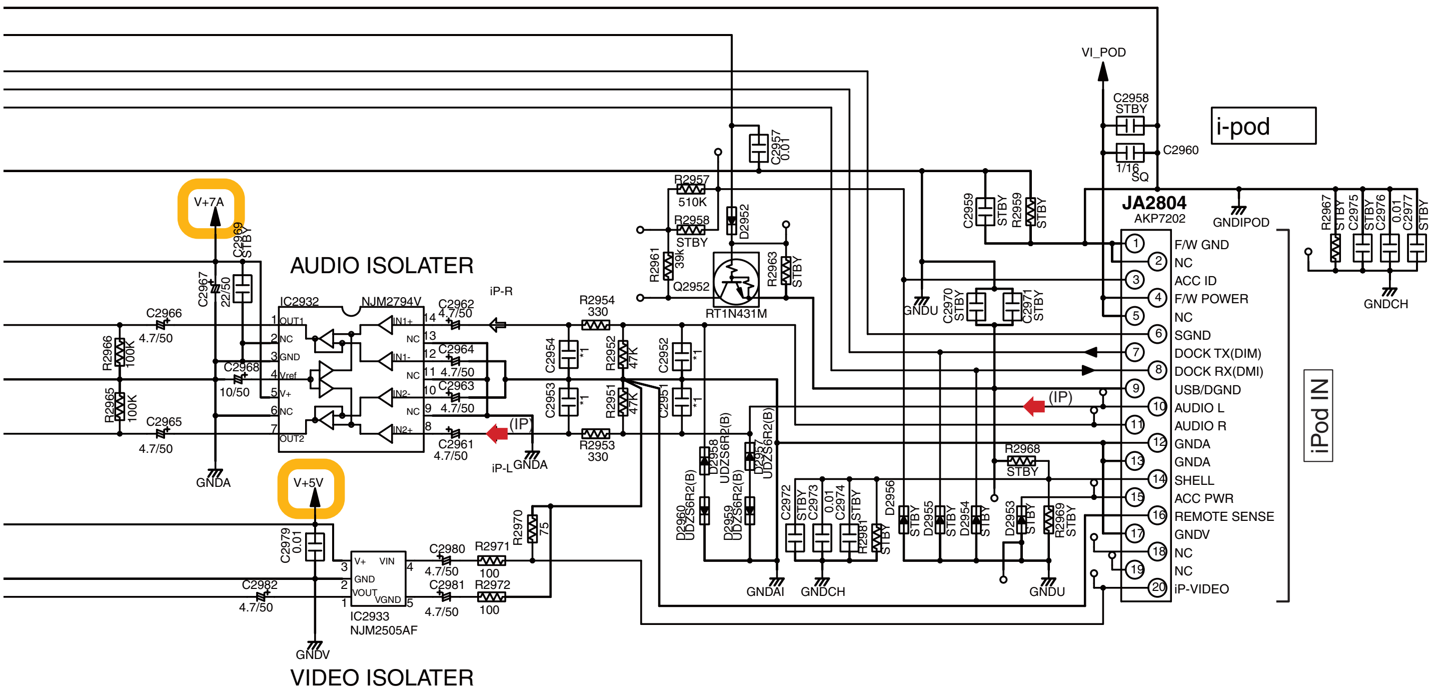
NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

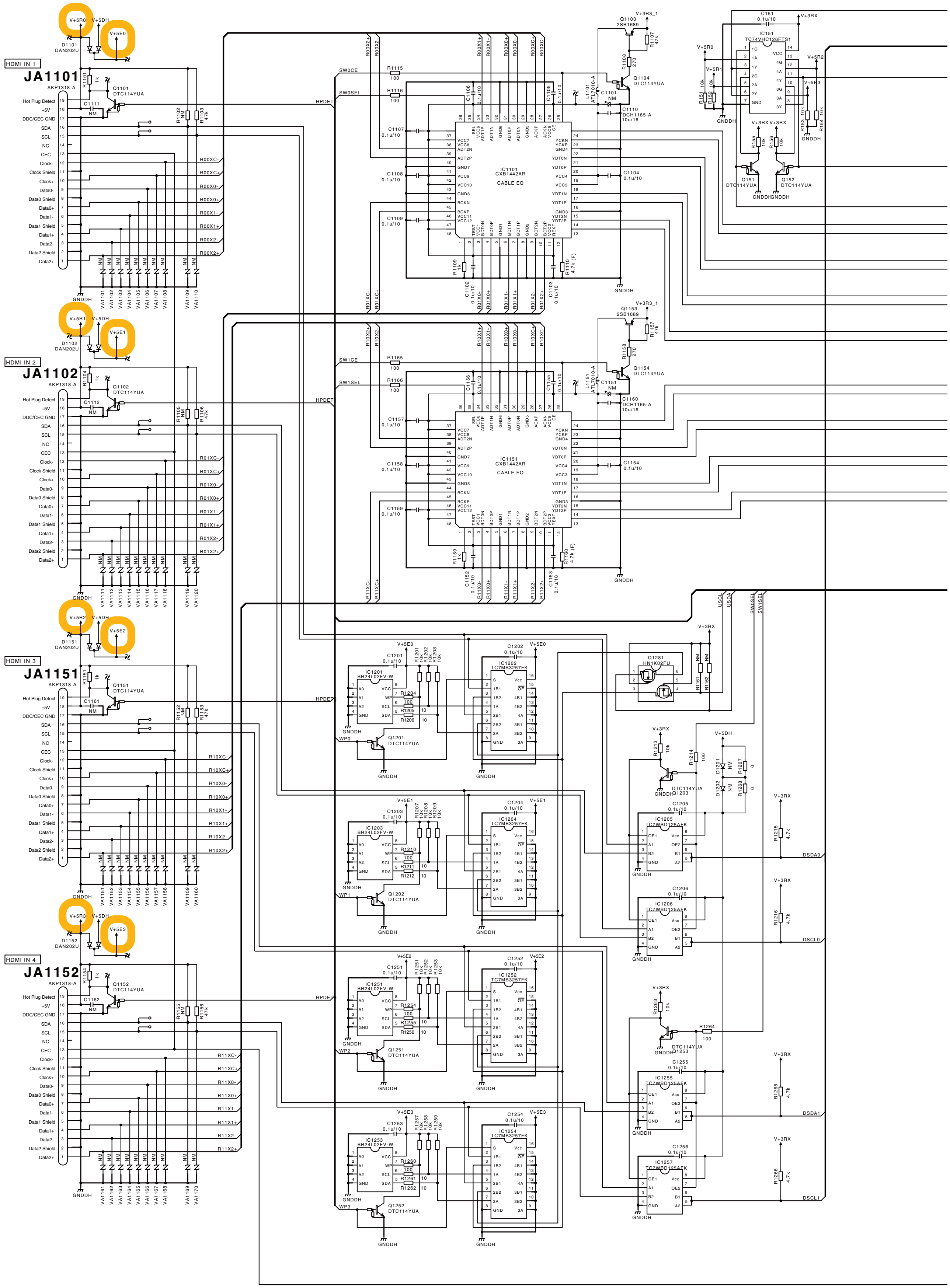
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.
* Parts or parts block marked by "STBY" are standby.

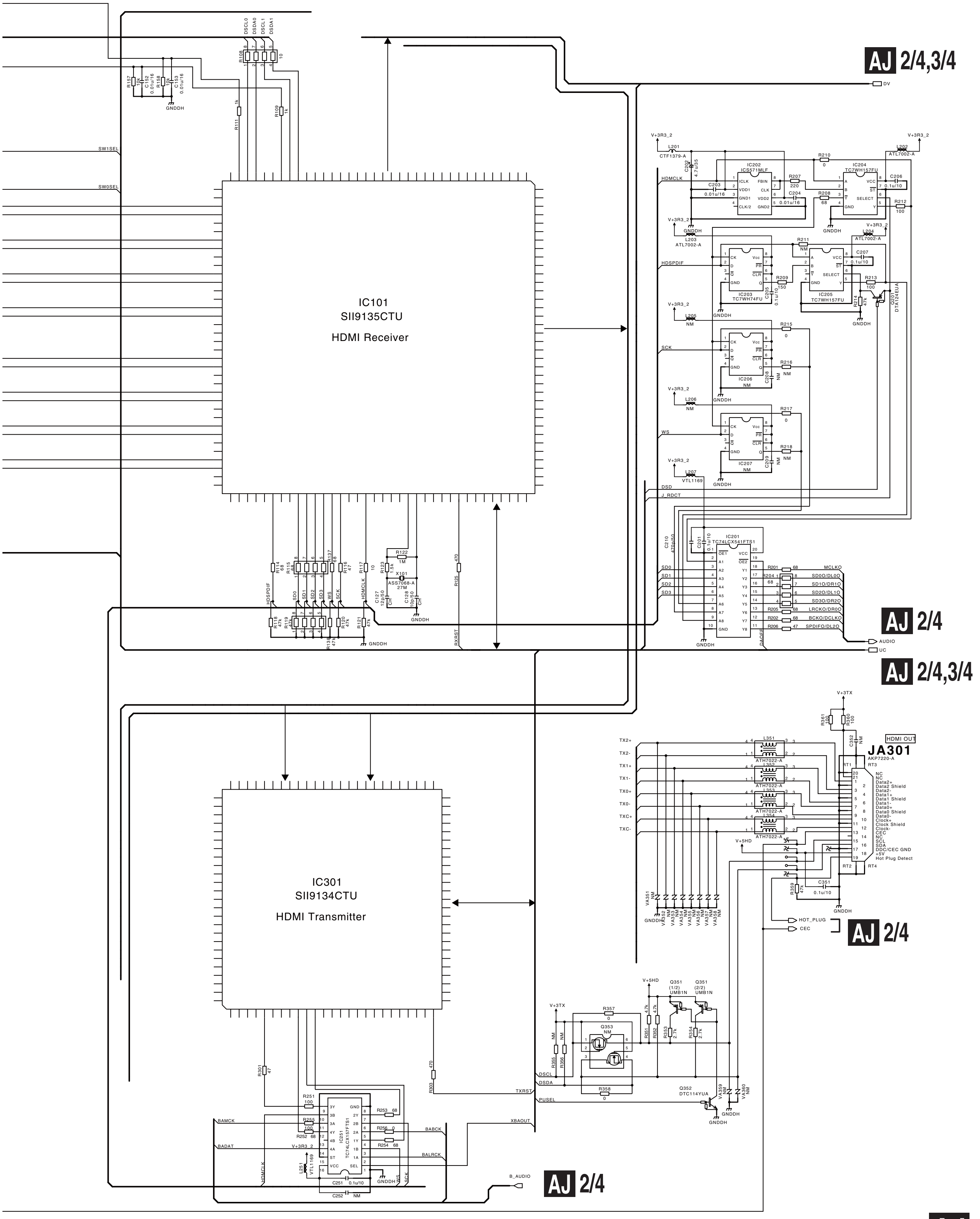

AUDIO ISOLATER
STBY
V+7A
C2999
STBY
C2993
C2992
IC2934
NJM2794V
1 OUT1
2 NC
3 GND
4 Vref
5 V+
6 NC
7 OUT2
14 IN1+
13 NC
12 IN1-
11 NC
10 IN2-
9 NC
8 IN2+
C2988
C2990
C2989
C2987
GNDA
R2978
R2977
C2994
C2991
C2986
C2985
R2976
330
R2975
330
R2974
47K
R2973
47K
C2984
STBY
C2983
STBY
STBY
D2966
UDZS6R2(B)
D2968
UDZS6R2(B)
D2967
UDZS6R2(B)
D2965
UDZS6R2(B)


VI_POD
C2958
STBY
i-pod
C2960
1/16
SQ
C2957
0.01
R2957
510K
R2958
STBY
D2952
R2961
39k
Q2952
RT1N431M
R2963
STBY
C2959
STBY
R2959
STBY
GNDU
C2970
STBY
C2971
STBY
JA2804
AKP7202
GNDIPOD
1 F/W GND
2 NC
3 ACC ID
4 F/W POWER
5 NC
6 SGND
7 DOCK TX(DIM)
8 DOCK RX(DMI)
9 USB/DGND
10 AUDIO L
11 AUDIO R
12 GNDA
13 GNDA
14 SHELL
15 ACC PWR
16 REMOTE SENSE
17 GNDV
18 NC
19 NC
20 iP-VIDEO
iPod IN
R2967
STBY
C2975
STBY
C2976
STBY
0.01
C2977
STBY
GNDCH
V+7A
C2969
STBY
AUDIO ISOLATER
C2967
22/50
IC2932
NJM2794V
1 OUT1
2 NC
3 GND
4 Vref
5 V+
6 NC
7 OUT2
14 IN1+
13 NC
12 IN1-
11 NC
10 IN2-
9 NC
8 IN2+
C2962
4.7/50
iP-R
C2964
4.7/50
C2963
4.7/50
C2961
4.7/50
(IP)
iP-L
GNDA
C2966
4.7/50
R2966
100K
C2968
10/50
R2965
100K
C2965
4.7/50
GNDA
R2954
330
R2953
330
C2954
*1
C2953
*1
R2952
47K
R2951
47K
C2952
*1
C2951
*1
(IP)
D2958
UDZS6R2(B)
D2957
UDZS6R2(B)
D2960
UDZS6R2(B)
D2959
UDZS6R2(B)
C2972
STBY
C2973
0.01
C2974
STBY
R2981
STBY
D2956
STBY
D2955
STBY
D2954
STBY
D2953
STBY
R2968
STBY
R2969
STBY
GNDAI
GNDCH
GNDU
V+5V
C2979
0.01
C2980
4.7/50
R2971
100
R2970
75
C2982
4.7/50
C2981
4.7/50
R2972
100
IC2933
NJM2505AF
V+
VIN
GND
VOUT
VGND
GNDV
VIDEO ISOLATER

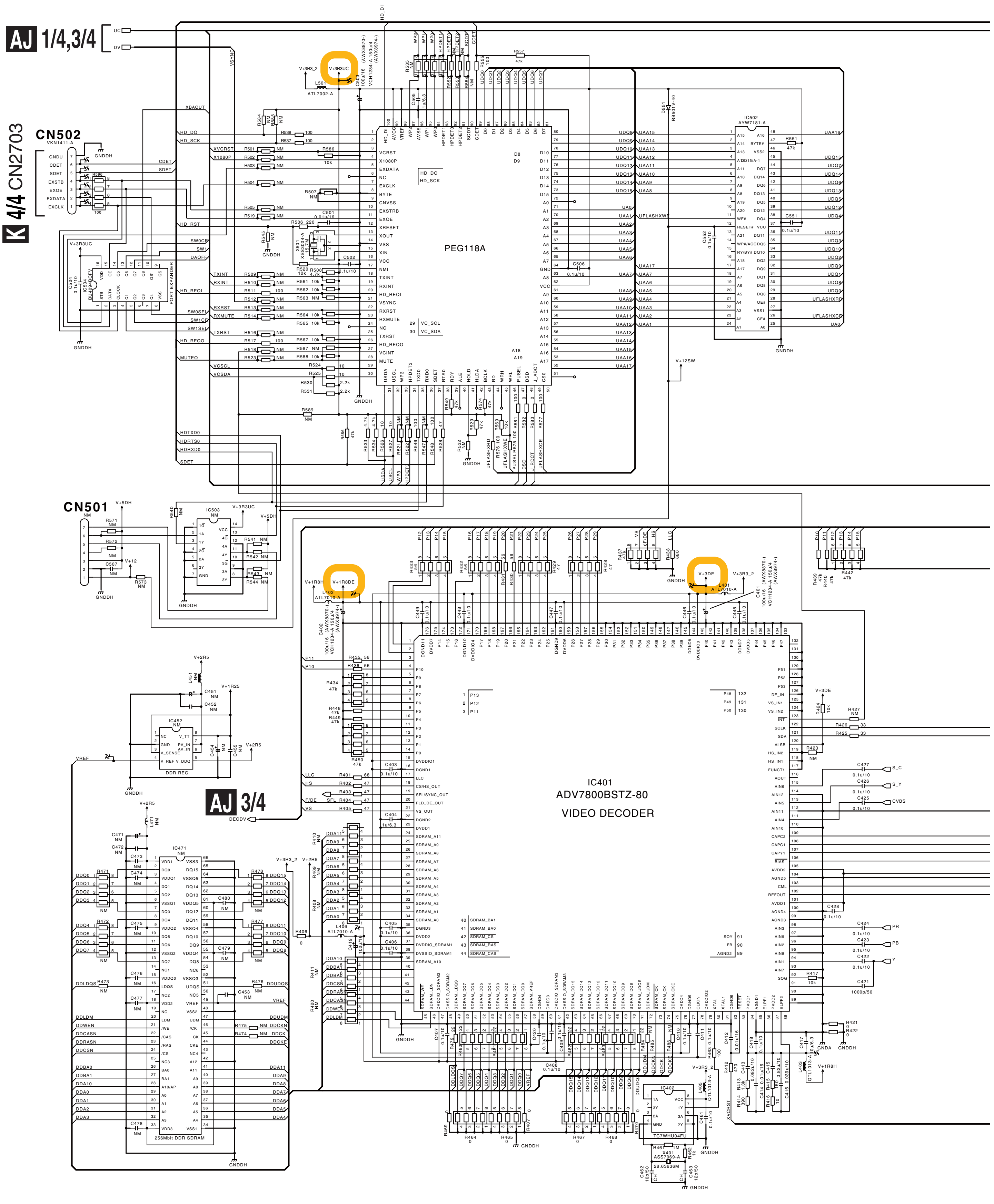
10.31 HDMI & DLNA ASSY (1/4) (VSX-LX70)


A
B
C
D
E
F
HDMI IN 1
JA1101
AKP1318-A
HDMI IN 2
JA1102
AKP1318-A
HDMI IN 3
JA1151
AKP1318-A
HDMI IN 4
JA1152
AKP1318-A
Hot Plug Detect
+5V
DDC/CEC GND
SDA
SCL
NC
CEC
Clock-
Clock Shield
Clock+
Data0-
Data0 Shield
Data0+
Data1-
Data1 Shield
Data1+
Data2-
Data2 Shield
Data2+
V+5R0
V+5DH
V+5E0
D1101
DAN202U
V+5R1
V+5E1
D1102
DAN202U
V+5R2
V+5E2
D1151
DAN202U
V+5R3
V+5E3
D1152
DAN202U
Q1101
DTC114YUA
Q1102
DTC114YUA
Q1151
DTC114YUA
Q1152
DTC114YUA
GNDDH
NM
IC1101
CXB1442AR
CABLE EQ
IC1151
CXB1442AR
CABLE EQ
Q1103
2SB1689
Q1104
DTC114YUA
Q1153
2SB1689
Q1154
DTC114YUA
L1101
ATJ7010-A
L1151
ATJ7010-A
C1110
DCH1165-A
10u/16
C1160
DCH1165-A
10u/16
V+3R3_1
SW0CE
SW0SEL
SW1CE
SW1SEL
HPDET
IC151
TC74VHC126FTS1
C151
0.1u/10
V+3RX
V+5R0
V+5R1
V+5R2
V+5R3
Q151
DTC114YUA
Q152
DTC114YUA
IC1201
BR24L02FV-W
IC1202
TC7MB3257FK
IC1203
BR24L02FV-W
IC1204
TC7MB3257FK
IC1251
BR24L02FV-W
IC1252
TC7MB3257FK
IC1253
BR24L02FV-W
IC1254
TC7MB3257FK
Q1201
DTC114YUA
Q1202
DTC114YUA
Q1251
DTC114YUA
Q1252
DTC114YUA
WP0
WP1
WP2
WP3
Q1281
HN1K02FU
Q1203
DTC114YUA
Q1253
DTC114YUA
IC1205
TC7WBD125AFK
IC1206
TC7WBD125AFK
IC1255
TC7WBD125AFK
IC1257
TC7WBD125AFK
D1201
D1202
V+5DH
USCL
USDA
SW0SEL
SW1SEL
DSDA0
DSCL0
DSDA1
DSCL1

AJ 1/4 HDMI & DLNA ASSY (AWX8974)

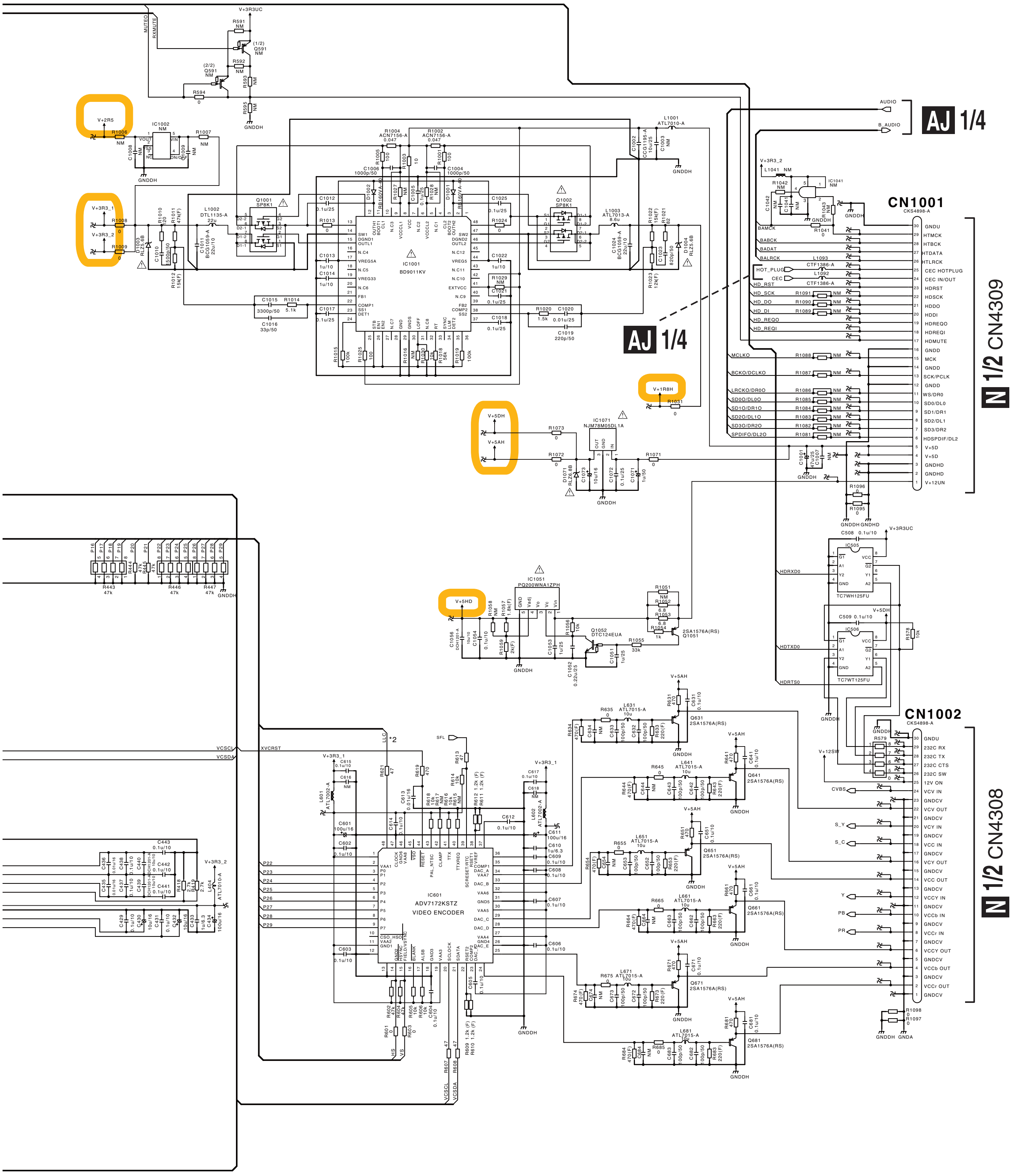

AJ 2/4,3/4
DV
IC101
SII9135CTU
HDMI Receiver
IC301
SII9134CTU
HDMI Transmitter
SW1SEL
SW0SEL
DSCL0
DSDA0
DSCL1
DSDA1
GNDDH
IC202 ICS571MLF
IC204 TC7WH157FU
IC203 TC7WH74FU
IC205 TC7WH157FU
IC206 NM
IC207 NM
IC201 TC74LCX541FTS1
HDMCLK
HDSPDIF
SCK
WS
DSD
J_RDCT
SD0
SD1
SD2
SD3
MCLKO
SD0O/DL0O
SD1O/DR1O
SD2O/DL1O
SD3O/DR2O
LRCKO/DR0O
BCKO/DCLKO
SPDIFO/DL2O
AJ 2/4
AUDIO
UC
AJ 2/4,3/4
V+3TX
HDMI OUT
JA301
AKP7220-A
TX2+
TX2-
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-
L351
L352
L353
L354
ATH7022-A
NC
Data2+
Data2 Shield
Data2-
Data1+
Data1 Shield
Data1-
Data0+
Data0 Shield
Data0-
Clock+
Clock Shield
Clock-
CEC
NC
SCL
SDA
DDC/CEC GND
+5V
Hot Plug Detect
HOT_PLUG
CEC
AJ 2/4
Q351 UMB1N
Q352 DTC114YUA
Q353 NM
DSCL
DSDA
TXRST
PUSEL
RXRST
IC251 TC74LCX157FTS1
BAMCK
BADAT
BABCK
BALRCK
XBAOUT
B_AUDIO
AJ 2/4

10.32 HDMI & DLNA ASSY (2/4) (VSX-LX70)

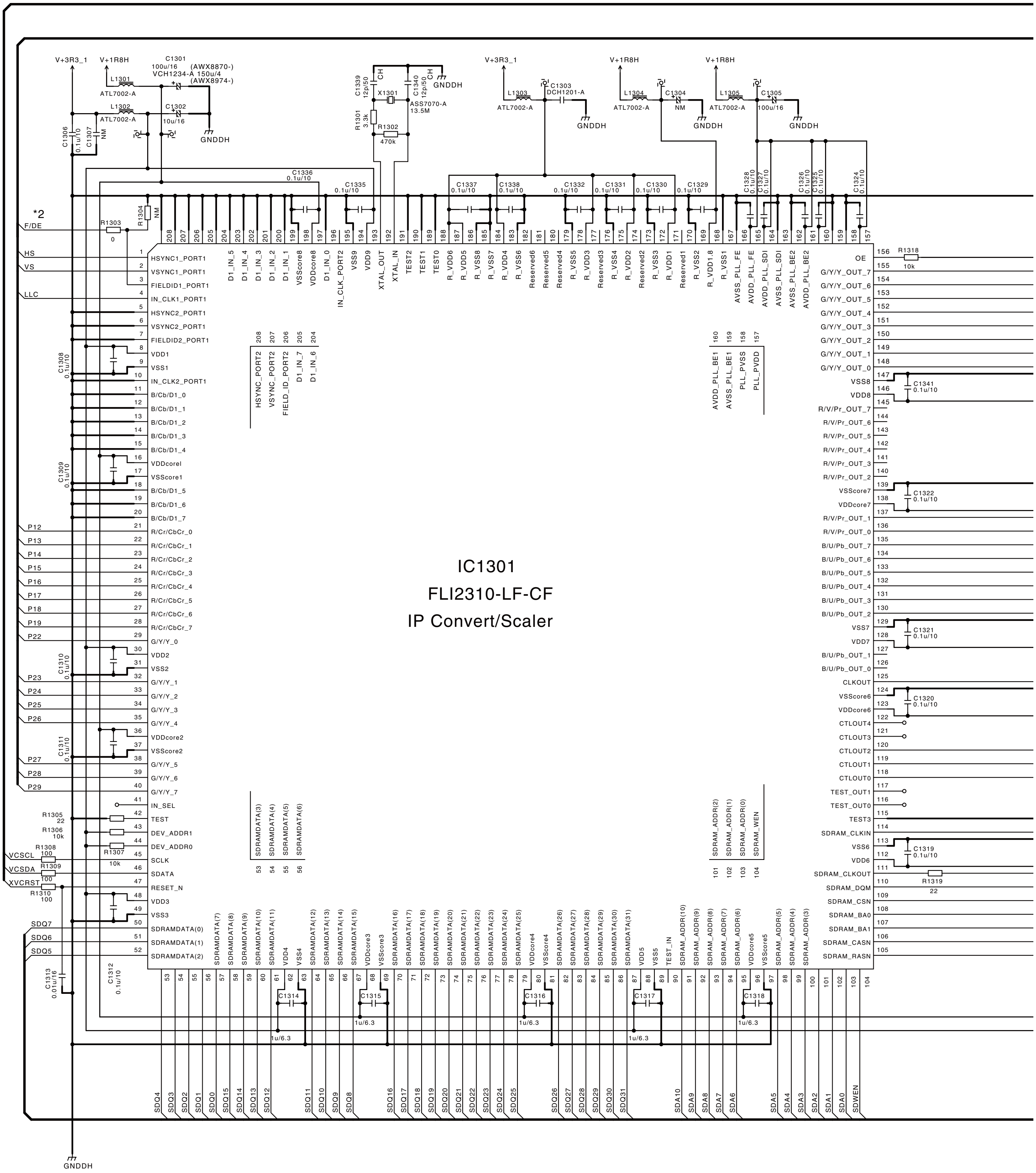

AJ 1/4,3/4
K 4/4 CN2703
CN502
VKN1411-A
IC504
BU4094BCFV
PORT EXPANDER
PEG118A
IC502
AYW7181-A
CN501
IC503
IC452
DDR REG
AJ 3/4
DECDV
IC471
256Mbit DDR SDRAM
IC401
ADV7800BSTZ-80
VIDEO DECODER
IC402
TC7WHU04FU
X401
ASS7069-A
28.63636M
V+3R3UC
V+1R8DE
V+3DE
L501
ATL7002-A
C503
100u/16
VCH1234-A 150u/4
(AWX8870-)
(AWX8974-)
S_C
S_Y
CVBS
PR
PB
Y

AJ 2/4

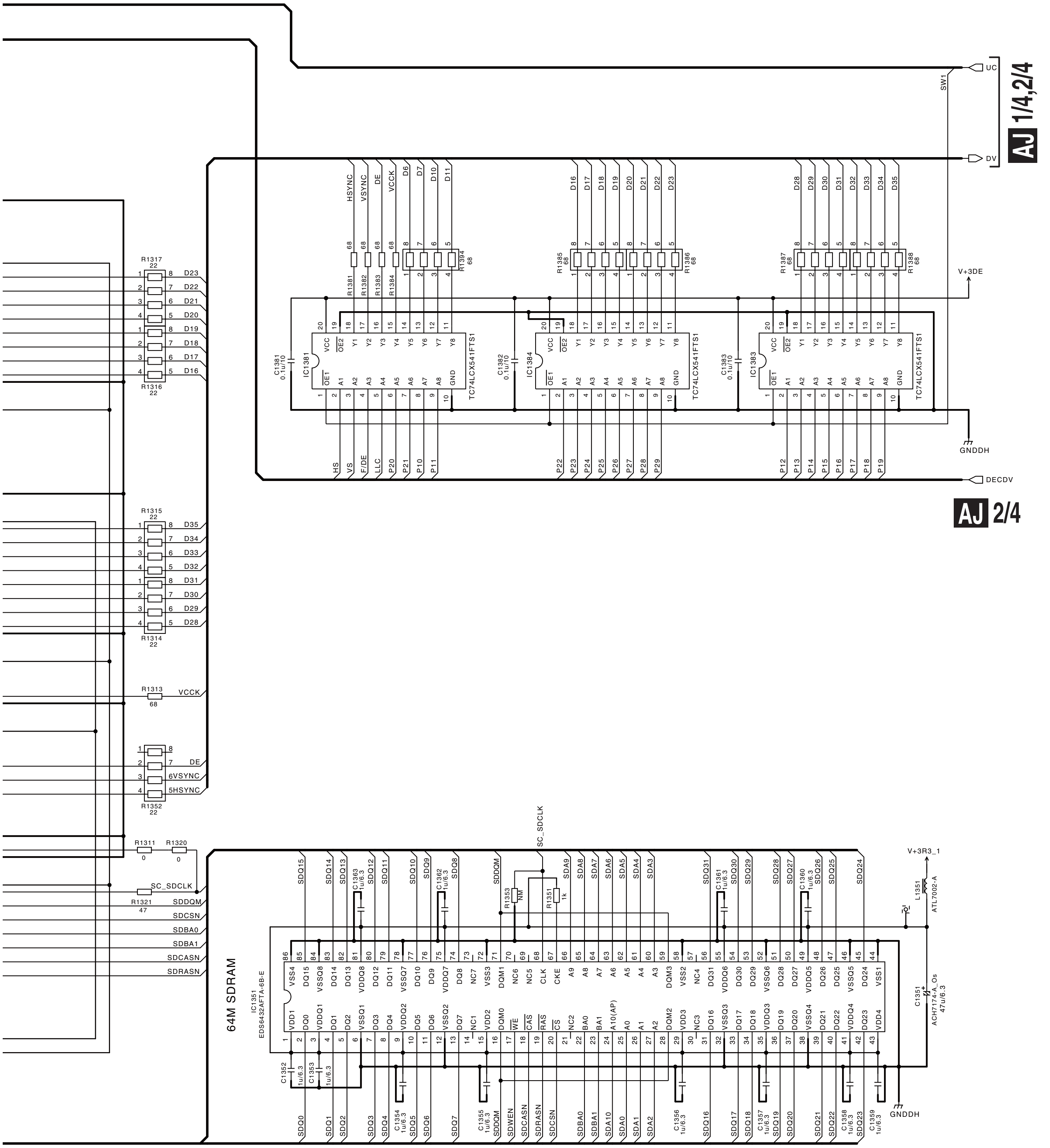
AJ 2/4 HDMI & DLNA ASSY (AWX8974)


AJ 1/4
AUDIO
B_AUDIO
V+3R3UC
R591 NM
(1/2) Q591
(2/2) Q591 NM
R592 NM
R593 NM
R594 0
R595 NM
GNDDH
MUTEO
RXMUTE
V+2R5
R1006 NM
IC1002 NM
R1007 NM
C1008 NM
R1009 NM
V+3R3_1
V+3R3_2
R1008 0
R1009 0
D1020 RLZ6.8B
R1010 22k
R1011 47k(F)
R1012 15k(F)
L1002 DTL1135-A 22u
C1010 3300p/50
C1011 BCG1059-A 22u/10
Q1001 SP8K1
IC1001 BD9011KV
R1004 ACN7156-A 0.047
R1002 ACN7156-A 0.047
R1005 100
R1003 10
R1001 100
C1006 1000p/50
C1004 1000p/50
D1002 RB160VA-40
D1001 RB160VA-40
C1012 0.1u/25
R1013 0
C1013 1u/10
C1014 1u/10
C1015 3300p/50
R1014 5.1k
C1016 33p/50
C1017 0.1u/25
R1015 100k
R1025 100
R1016 NM
R1017 100k
R1018 56k
R1019 100k
C1025 0.1u/25
R1024 0
C1022 1u/10
R1029 NM
C1021 0.1u/25
R1020 1.5k
C1020 0.01u/25
C1019 220p/50
C1018 0.1u/25
Q1002 SP8K1
L1003 ATL7013-A 6.8u
C1024 BCG1059-A 22u/10
R1022 15k(F)
R1021 82
R1023 12k(F)
C1023 820p/50
D1004 RLZ6.8B
L1001 ATL7010-A
C1002 CCG1195-A 10u/25
C1003 NM
V+1R8H
R1031 0
V+5DH
V+5AH
IC1071 NJM78M05DL1A
R1073 0
R1072 0
R1071 0
D1071 RLZ6.8B
C1073 10u/16
C1072 0.1u/25
C1071 1u/50
GNDDH
V+3R3_2
L1041 NM
R1042 NM
IC1041 NM
R1043 NM
C1041 NM
C1042 NM
R1041 0
CN1001 CKS4898-A
N 1/2 CN4309
BAMCK
BABCK
BADAT
BALRCK
L1093 CTF1386-A
L1092 CTF1386-A
HOT_PLUG
CEC
HD_RST
HD_SCK
HD_DO
HD_DI
HD_REQO
HD_REQI
R1091 NM
R1090 NM
R1089 NM
MCLKO
BCKO/DCLKO
LRCKO/DR0O
SD0O/DL0O
SD1O/DR1O
SD2O/DL1O
SD3O/DR2O
SPDIFO/DL2O
R1088 NM
R1087 NM
R1086 NM
R1085 NM
R1084 NM
R1083 NM
R1082 NM
R1081 NM
C1091 47u/25
C1092 NM
R1096 0
R1095 0
GNDDH GNDHD
30 GNDU
29 HTMCK
28 HTBCK
27 HTDATA
26 HTLRCK
25 CEC HOTPLUG
24 CEC IN/OUT
23 HDRST
22 HDSCK
21 HDDO
20 HDDI
19 HDREQO
18 HDREQI
17 HDMUTE
16 GNDD
15 MCK
14 GNDD
13 SCK/PCLK
12 GNDD
11 WS/DR0
10 SD0/DL0
9 SD1/DR1
8 SD2/DL1
7 SD3/DR2
6 HDSPDIF/DL2
5 V+5D
4 V+5D
3 GNDHD
2 GNDHD
1 V+12UN
V+3R3UC
C508 0.1u/10
IC505 TC7WH125FU
HDRXD0
V+5DH
C509 0.1u/10
IC506 TC7WT125FU
R578 10k
HDTXD0
HDRTS0
P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29
R443 47k
R444 47k
R445 47k
R446 47k
R447 47k
GNDDH
IC1051 PQ200WNA1ZPH
V+5HD
R1058 NM
R1057 1.8k(F)
R1059 2k(F)
C1056 DCH1201-A 10u/10
C1054 0.1u/10
C1053 1u/25
C1052 0.22u/25
R1056 10k
Q1052 DTC124EUA
R1055 33k
C1051 1u/25
R1051 NM
R1052 0
R1053 6.8
R1054 1k
Q1051 2SA1576A(RS)
VCSCL
VCSDA
XVCRST
LLC
SFL
*2
V+3R3_1
C615 0.1u/10
C616 NM
L601 ATL7002-A
C601 100u/16
C602 0.1u/10
C603 0.1u/10
R621 47
R619 470
R613 0
C613 0.01u/16
C614 0.1u/10
R618 10k
R617 NM
R616 NM
R615 10k
R614 10k
R612 1.2k (F)
R611 1.2k (F)
C617 0.1u/10
C618 NM
L602 ATL7002-A
C612 0.1u/10
C611 100u/16
C610 1u/6.3
C609 0.1u/10
C608 0.1u/10
C607 0.1u/10
C606 0.1u/10
IC601 ADV7172KSTZ VIDEO ENCODER
P22 P23 P24 P25 P26 P27 P28 P29
R601 0
R602 47k
R603 0
R604 47k
R605 10k
R606 10k
C604 0.1u/10
C605 0.1u/10
R607 47
R608 47
R609 1.2k (F)
R610 1.2k (F)
HS
VS
GNDDH
C443 0.1u/10
C442 0.1u/10
C441 0.1u/10
C436 C438 C440 C435 C437 C439
C429 0.1u/10
C430 10u/16
C431 0.1u/10
C432 10u/16
C433 0.1u/10
C434 100u/16
R418 2.7k
L404 ATL7010-A
V+3R3_2
V+5AH
R635 0
L631 ATL7015-A 10u
R634 470(F)
C634 NM
C633 100p/50
C632 100p/50
R633 220(F)
R631 470
C631 0.1u/10
Q631 2SA1576A(RS)
L641 ATL7015-A 10u
R645 0
R644 470(F)
C644 NM
C643 100p/50
C642 100p/50
R643 220(F)
R641 470
C641 0.1u/10
Q641 2SA1576A(RS)
L651 ATL7015-A 10u
R655 0
R654 470(F)
C654 NM
C653 100p/50
C652 100p/50
R653 220(F)
R651 470
C651 0.1u/10
Q651 2SA1576A(RS)
L661 ATL7015-A 10u
R665 0
R664 470(F)
C664 NM
C663 100p/50
C662 100p/50
R663 220(F)
R661 470
C661 0.1u/10
Q661 2SA1576A(RS)
L671 ATL7015-A 10u
R675 0
R674 470(F)
C674 NM
C673 100p/50
C672 100p/50
R673 220(F)
R671 470
C671 0.1u/10
Q671 2SA1576A(RS)
L681 ATL7015-A 10u
R685 0
R684 470(F)
C684 NM
C683 100p/50
C682 100p/50
R683 220(F)
R681 470
C681 0.1u/10
Q681 2SA1576A(RS)
CVBS
S_Y
S_C
Y
PB
PR
V+12SW
R579 0
R1098 0
R1097 0
GNDDH GNDA
CN1002 CKS4898-A
N 1/2 CN4308
30 GNDU
29 232C RX
28 232C TX
27 232C CTS
26 232C SW
25 12V ON
24 VCV IN
23 GNDCV
22 VCV OUT
21 GNDCV
20 VCY IN
19 GNDCV
18 VCC IN
17 GNDCV
16 VCY OUT
15 GNDCV
14 VCC OUT
13 GNDCV
12 VCCY IN
11 GNDCV
10 VCCb IN
9 GNDCV
8 VCCr IN
7 GNDCV
6 VCCY OUT
5 GNDCV
4 VCCb OUT
3 GNDCV
2 VCCr OUT
1 GNDCV

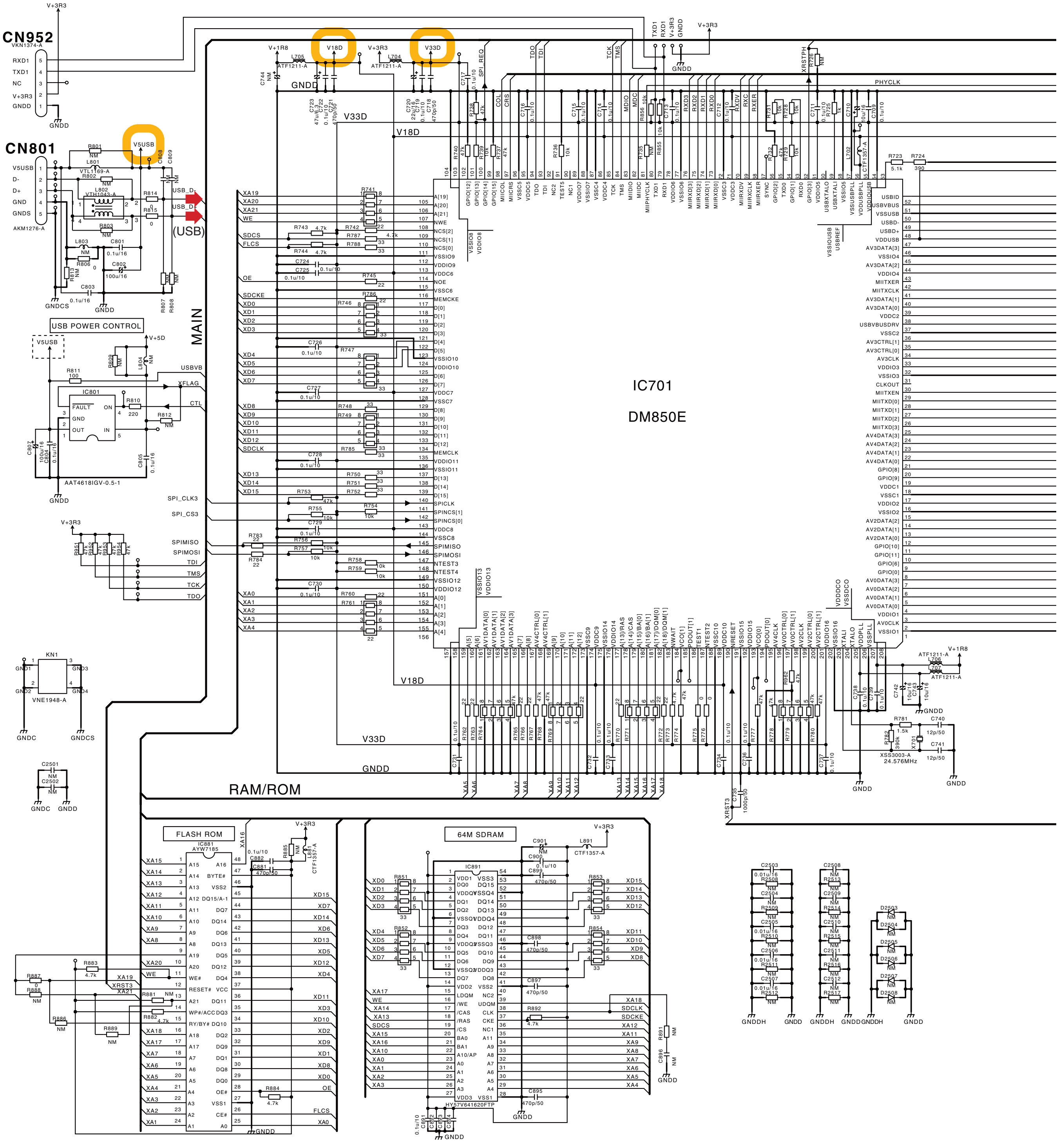
10.33 HDMI & DLNA ASSY (3/4) (VSX-LX70)


IC1301
FLI2310-LF-CF
IP Convert/Scaler
V+3R3_1
V+1R8H
L1301
ATL7002-A
L1302
ATL7002-A
C1301
100u/16
VCH1234-A 150u/4
(AWX8870-)
(AWX8974-)
C1302
10u/16
GNDDH
C1306
0.1u/10
C1307
NM
C1339
12p/50
CH
X1301
C1340
12p/50
CH
ASS7070-A
13.5M
R1301
3.3k
R1302
470k
L1303
ATL7002-A
C1303
DCH1201-A
L1304
C1304
NM
L1305
C1305
100u/16
C1336
0.1u/10
C1335
0.1u/10
C1337
0.1u/10
C1338
0.1u/10
C1332
0.1u/10
C1331
0.1u/10
C1330
0.1u/10
C1329
0.1u/10
C1328
C1327
C1326
C1325
C1324
*2
F/DE
R1303
0
R1304
NM
HS
VS
LLC
HSYNC1_PORT1
VSYNC1_PORT1
FIELDID1_PORT1
IN_CLK1_PORT1
HSYNC2_PORT1
VSYNC2_PORT1
FIELDID2_PORT1
VDD1
VSS1
IN_CLK2_PORT1
B/Cb/D1_0
B/Cb/D1_1
B/Cb/D1_2
B/Cb/D1_3
B/Cb/D1_4
VDDcore1
VSScore1
B/Cb/D1_5
B/Cb/D1_6
B/Cb/D1_7
R/Cr/CbCr_0
R/Cr/CbCr_1
R/Cr/CbCr_2
R/Cr/CbCr_3
R/Cr/CbCr_4
R/Cr/CbCr_5
R/Cr/CbCr_6
R/Cr/CbCr_7
G/Y/Y_0
VDD2
VSS2
G/Y/Y_1
G/Y/Y_2
G/Y/Y_3
G/Y/Y_4
VDDcore2
VSScore2
G/Y/Y_5
G/Y/Y_6
G/Y/Y_7
IN_SEL
TEST
DEV_ADDR1
DEV_ADDR0
SCLK
SDATA
RESET_N
VDD3
VSS3
SDRAMDATA(0)
SDRAMDATA(1)
SDRAMDATA(2)
C1308
C1309
C1310
C1311
0.1u/10
P12
P13
P14
P15
P16
P17
P18
P19
P22
P23
P24
P25
P26
P27
P28
P29
R1305
22
R1306
10k
R1307
10k
R1308
100
R1309
100
R1310
100
VCSCL
VCSDA
XVCRST
SDQ7
SDQ6
SDQ5
C1313
0.01u/16
C1312
0.1u/10
D1_IN_5
D1_IN_4
D1_IN_3
D1_IN_2
D1_IN_1
VSScore8
VDDcore8
D1_IN_0
IN_CLK_PORT2
VSS9
VDD9
XTAL_OUT
XTAL_IN
TEST2
TEST1
TEST0
R_VDD6
R_VDD5
R_VSS8
R_VSS7
R_VDD4
R_VSS6
Reserved6
Reserved5
Reserved4
R_VSS5
R_VDD3
Reserved3
R_VSS4
R_VDD2
Reserved2
R_VSS3
R_VDD1
Reserved1
R_VSS2
R_VDD1.8
R_VSS1
AVSS_PLL_FE
AVDD_PLL_FE
AVDD_PLL_SDI
AVSS_PLL_SDI
AVSS_PLL_BE2
AVDD_PLL_BE2
HSYNC_PORT2
VSYNC_PORT2
FIELD_ID_PORT2
D1_IN_7
D1_IN_6
AVDD_PLL_BE1
AVSS_PLL_BE1
PLL_PVSS
PLL_PVDD
OE
R1318
10k
G/Y/Y_OUT_7
G/Y/Y_OUT_6
G/Y/Y_OUT_5
G/Y/Y_OUT_4
G/Y/Y_OUT_3
G/Y/Y_OUT_2
G/Y/Y_OUT_1
G/Y/Y_OUT_0
VSS8
VDD8
C1341
0.1u/10
R/V/Pr_OUT_7
R/V/Pr_OUT_6
R/V/Pr_OUT_5
R/V/Pr_OUT_4
R/V/Pr_OUT_3
R/V/Pr_OUT_2
VSScore7
VDDcore7
C1322
0.1u/10
R/V/Pr_OUT_1
R/V/Pr_OUT_0
B/U/Pb_OUT_7
B/U/Pb_OUT_6
B/U/Pb_OUT_5
B/U/Pb_OUT_4
B/U/Pb_OUT_3
B/U/Pb_OUT_2
VSS7
VDD7
C1321
0.1u/10
B/U/Pb_OUT_1
B/U/Pb_OUT_0
CLKOUT
VSScore6
VDDcore6
C1320
0.1u/10
CTLOUT4
CTLOUT3
CTLOUT2
CTLOUT1
CTLOUT0
TEST_OUT1
TEST_OUT0
TEST3
SDRAM_CLKIN
VSS6
VDD6
C1319
0.1u/10
SDRAM_CLKOUT
R1319
22
SDRAM_DQM
SDRAM_CSN
SDRAM_BA0
SDRAM_BA1
SDRAM_CASN
SDRAM_RASN
SDRAMDATA(3)
SDRAMDATA(4)
SDRAMDATA(5)
SDRAMDATA(6)
SDRAM_ADDR(2)
SDRAM_ADDR(1)
SDRAM_ADDR(0)
SDRAM_WEN
SDRAMDATA(7)
SDRAMDATA(8)
SDRAMDATA(9)
SDRAMDATA(10)
SDRAMDATA(11)
VDD4
VSS4
SDRAMDATA(12)
SDRAMDATA(13)
SDRAMDATA(14)
SDRAMDATA(15)
VDDcore3
VSScore3
SDRAMDATA(16)
SDRAMDATA(17)
SDRAMDATA(18)
SDRAMDATA(19)
SDRAMDATA(20)
SDRAMDATA(21)
SDRAMDATA(22)
SDRAMDATA(23)
SDRAMDATA(24)
SDRAMDATA(25)
VDDcore4
VSScore4
SDRAMDATA(26)
SDRAMDATA(27)
SDRAMDATA(28)
SDRAMDATA(29)
SDRAMDATA(30)
SDRAMDATA(31)
VDD5
VSS5
TEST_IN
SDRAM_ADDR(10)
SDRAM_ADDR(9)
SDRAM_ADDR(8)
SDRAM_ADDR(7)
SDRAM_ADDR(6)
VDDcore5
VSScore5
SDRAM_ADDR(5)
SDRAM_ADDR(4)
SDRAM_ADDR(3)
C1314
C1315
C1316
C1317
C1318
1u/6.3
SDQ4
SDQ3
SDQ2
SDQ1
SDQ0
SDQ15
SDQ14
SDQ13
SDQ12
SDQ11
SDQ10
SDQ9
SDQ8
SDQ16
SDQ17
SDQ18
SDQ19
SDQ20
SDQ21
SDQ22
SDQ23
SDQ24
SDQ25
SDQ26
SDQ27
SDQ28
SDQ29
SDQ30
SDQ31
SDA10
SDA9
SDA8
SDA7
SDA6
SDA5
SDA4
SDA3
SDA2
SDA1
SDA0
SDWEN
GNDDH

AJ 3/4 HDMI & DLNA ASSY (AWX8974)


UC
DV
SW1
AJ 1/4,2/4
V+3DE
GNDDH
DECDV
AJ 2/4
HSYNC
VSYNC
DE
VCCK
D6
D7
D10
D11
D16
D17
D18
D19
D20
D21
D22
D23
D28
D29
D30
D31
D32
D33
D34
D35
R1381
R1382
R1383
R1384
R1394
R1385
R1386
R1387
R1388
68
IC1381
IC1384
IC1383
TC74LCX541FTS1
C1381 0.1u/10
C1382 0.1u/10
C1383 0.1u/10
VCC
OE1
OE2
GND
HS
VS
F/DE
LLC
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
P23
P24
P25
P26
P27
P28
P29
R1317 22
R1316 22
R1315 22
R1314 22
R1313 68
R1352 22
VCCK
DE
VSYNC
HSYNC
R1311 0
R1320 0
R1321 47
SC_SDCLK
SDDQM
SDCSN
SDBA0
SDBA1
SDCASN
SDRASN
64M SDRAM
IC1351
EDS6432AFTA-6B-E
R1353 NM
R1351 1k
V+3R3_1
L1351 ATL7002-A
C1351 ACH7174-A Os 47u/6.3
C1352 1u/6.3
C1353 1u/6.3
C1354 1u/6.3
C1355 1u/6.3
C1356 1u/6.3
C1357 1u/6.3
C1358 1u/6.3
C1359 1u/6.3
C1360 1u/6.3
C1361 1u/6.3
C1362 1u/6.3
C1363 1u/6.3
SDQ0
SDQ1
SDQ2
SDQ3
SDQ4
SDQ5
SDQ6
SDQ7
SDQ8
SDQ9
SDQ10
SDQ11
SDQ12
SDQ13
SDQ14
SDQ15
SDQ16
SDQ17
SDQ18
SDQ19
SDQ20
SDQ21
SDQ22
SDQ23
SDQ24
SDQ25
SDQ26
SDQ27
SDQ28
SDQ29
SDQ30
SDQ31
SDWEN
SDBA0
SDBA1
SDA0
SDA1
SDA2
SDA3
SDA4
SDA5
SDA6
SDA7
SDA8
SDA9
SDA10
GNDDH

10.34 HDMI & DLNA ASSY (4/4) (VSX-LX70)


CN952
VKN1374-A
RXD1
TXD1
NC
V+3R3
GNDD
CN801
V5USB
D-
D+
GND
GNDS
AKM1276-A
VTL1169-A
VTH1043-A
USB_D+
USB_D-
(USB)
GNDCS
USB POWER CONTROL
V5USB
V+5D
USBVB
XFLAG
CTL
IC801
FAULT
ON
GND
OUT
IN
AAT4618IGV-0.5-1
MAIN
SPI_CLK3
SPI_CS3
SPIMISO
SPIMOSI
TDI
TMS
TCK
TDO
V+1R8
V18D
V+3R3
V33D
ATF1211-A
V18D
V33D
GNDD
IC701
DM850E
PHYCLK
XRSTPH
ATF1211-A
XSS3003-A
24.576MHz
KN1
VNE1948-A
GNDC
GNDCS
RAM/ROM
FLASH ROM
IC881
AYW7185
64M SDRAM
IC891
HY57V641620FTP
CTF1357-A
GNDDH

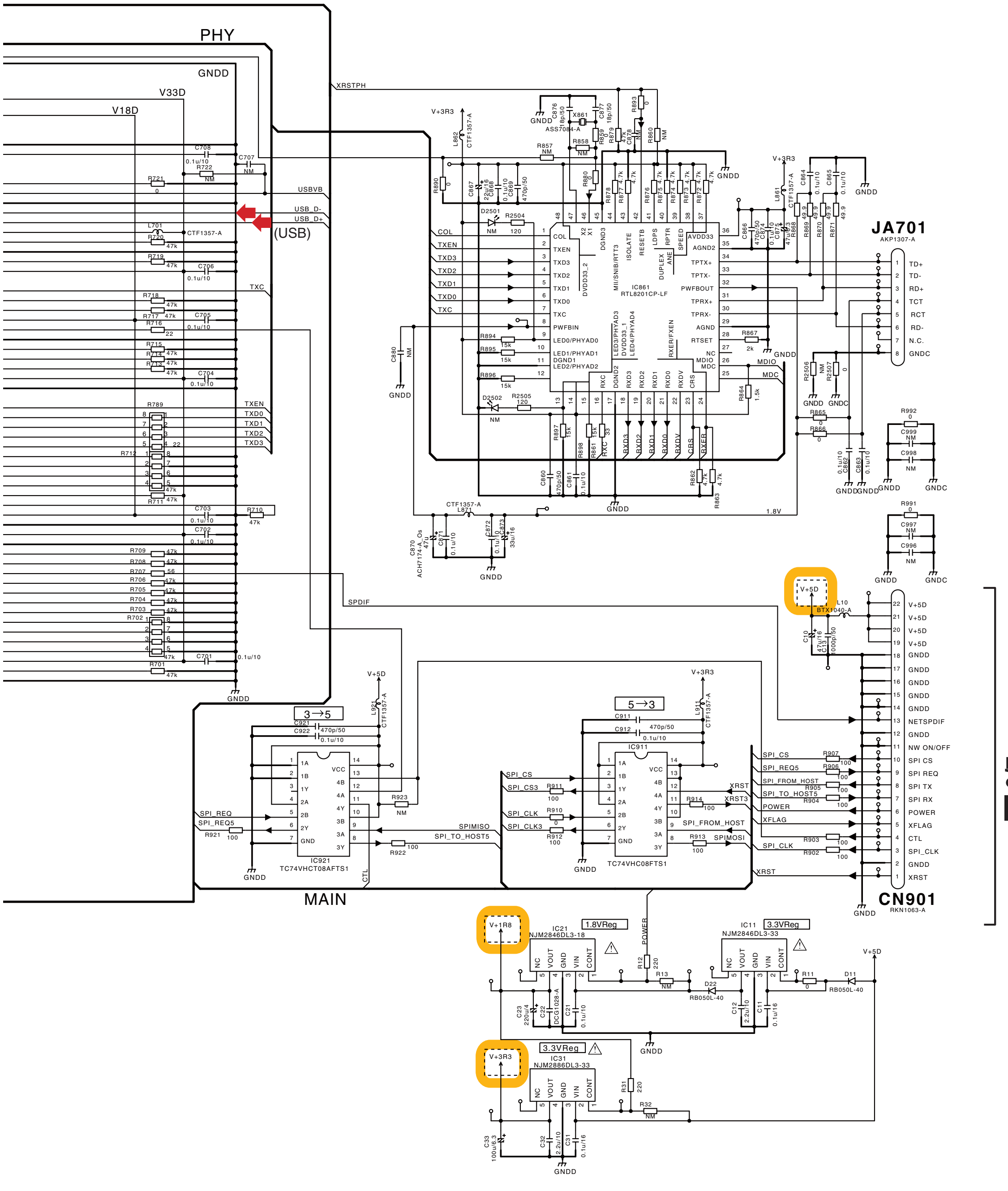
AJ 4/4 HDMI & DLNA ASSY (AWX8974)

A

(USB) : AUDIO SIGNAL ROUTE (USB)

B

C



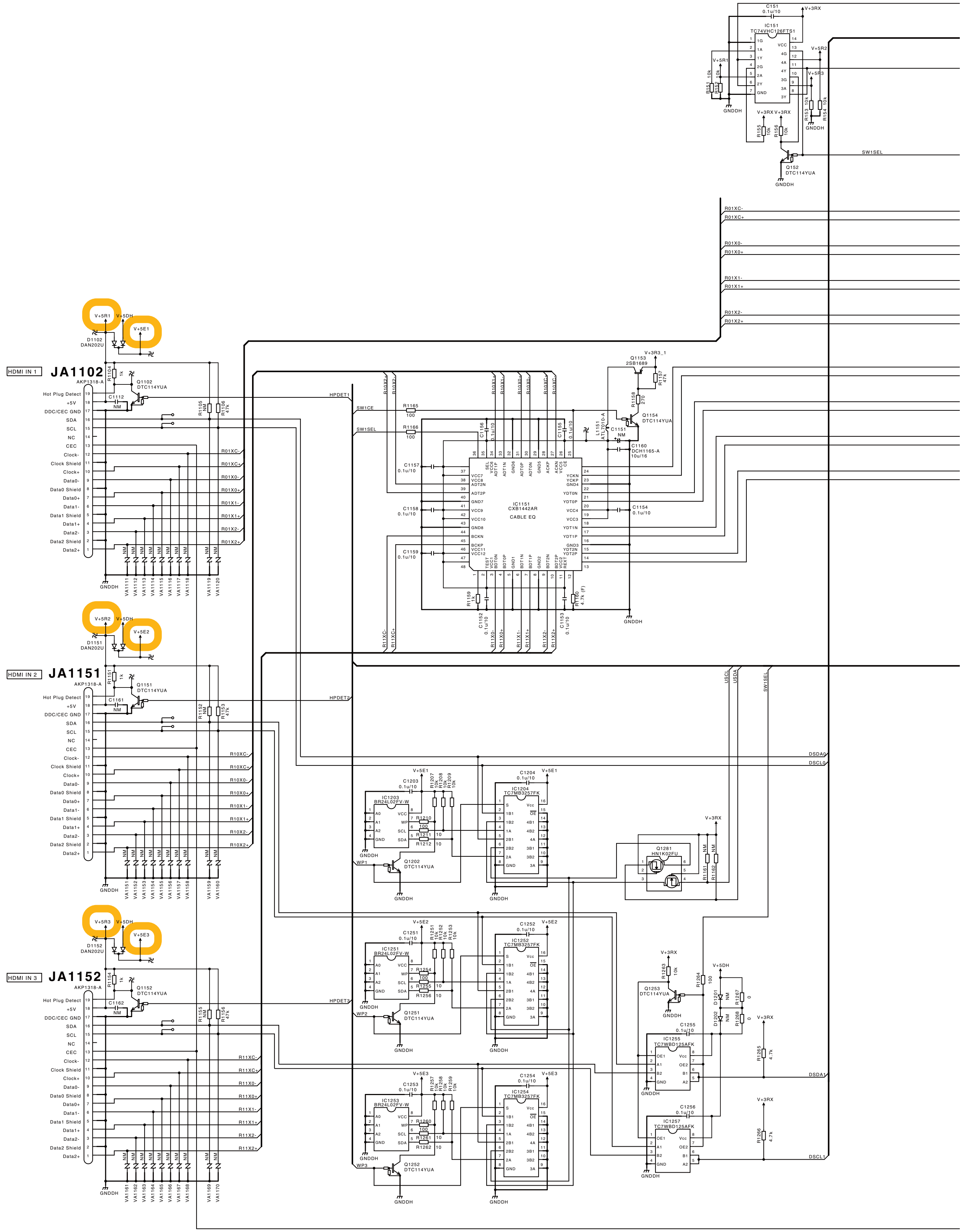
PHY
GNDD
V33D
V18D
XRSTPH
USBVB
USB_D-
USB_D+
(USB)
TXC
TXEN
TXD0
TXD1
TXD2
TXD3
SPDIF
COL
IC861
RTL8201CP-LF
X861
ASS7084-A
V+3R3
CTF1357-A
JA701
AKP1307-A
TD+
TD-
RD+
TCT
RCT
RD-
N.C.
GNDC
MDIO
MDC
1.8V
GNDD
V+5D
L10
BTX1040-A
CN901
RKN1063-A
L 2/7 CN204
V+5D
GNDD
NETSPDIF
NW ON/OFF
SPI CS
SPI REQ
SPI TX
SPI RX
POWER
XFLAG
CTL
SPI_CLK
XRST
3→5
IC921
TC74VHCT08AFTS1
5→3
IC911
TC74VHC08FTS1
SPI_CS
SPI_CS3
SPI_CLK
SPI_CLK3
SPI_REQ
SPI_REQ5
SPIMISO
SPI_TO_HOST5
SPI_FROM_HOST
SPI_TO_HOST5
SPIMOSI
XRST3
MAIN
V+1R8
IC21
NJM2846DL3-18
1.8VReg
IC11
NJM2846DL3-33
3.3VReg
V+3R3
IC31
NJM2886DL3-33
3.3VReg
NC
VOUT
GND
VIN
CONT
D22
RB050L-40
D11
RB050L-40
POWER

D

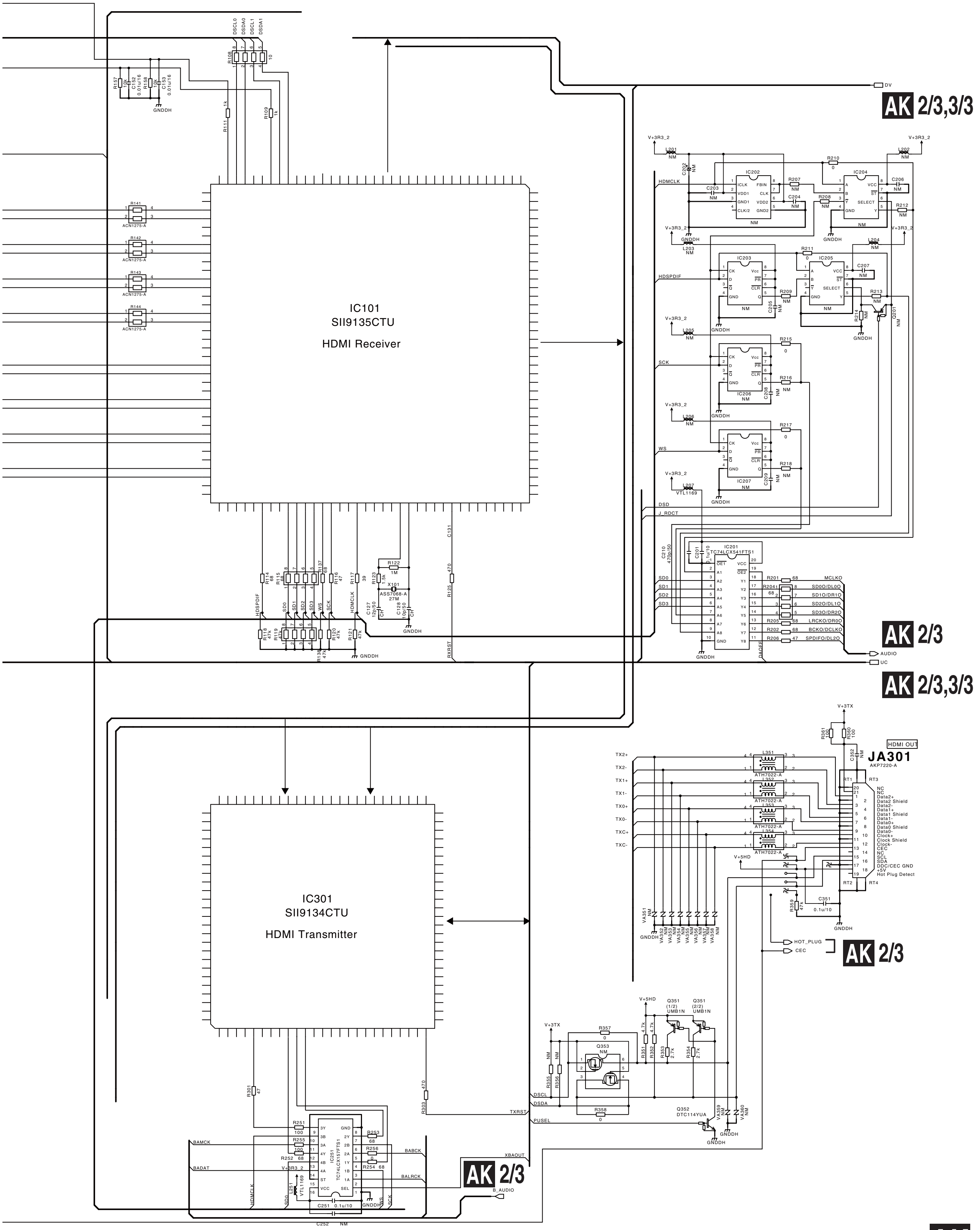
E

F

10.35 HDMI & DVC ASSY (1/3) (VSX-LX60)

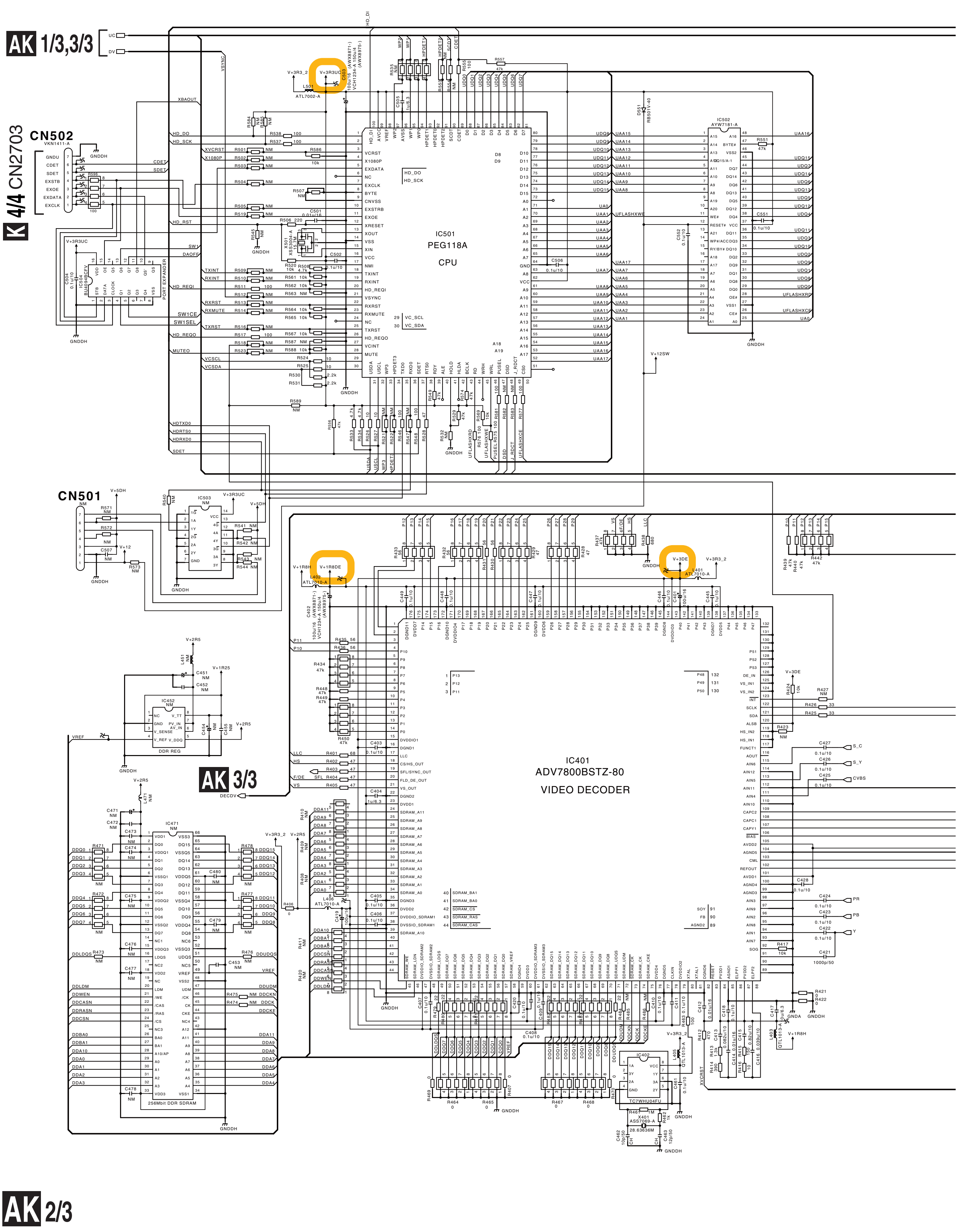

HDMI IN 1
JA1102
AKP1318-A
HDMI IN 2
JA1151
AKP1318-A
HDMI IN 3
JA1152
AKP1318-A
Hot Plug Detect
+5V
DDC/CEC GND
SDA
SCL
NC
CEC
Clock-
Clock Shield
Clock+
Data0-
Data0 Shield
Data0+
Data1-
Data1 Shield
Data1+
Data2-
Data2 Shield
Data2+
V+5R1
V+5DH
V+5E1
D1102
DAN202U
Q1102
DTC114YUA
V+5R2
V+5E2
D1151
DAN202U
Q1151
DTC114YUA
V+5R3
V+5E3
D1152
DAN202U
Q1152
DTC114YUA
GNDDH
HPDET1
HPDET2
HPDET3
SW1CE
SW1SEL
IC1151
CXB1442AR
CABLE EQ
IC151
TC74VHC126FTS1
Q152
DTC114YUA
Q1153
2SB1689
Q1154
DTC114YUA
L1151
C1160
DCH1165-A
10u/16
V+3RX
V+3R3_1
IC1203
BR24L02FV-W
IC1204
TC7MB3257FK
Q1202
DTC114YUA
IC1251
BR24L02FV-W
IC1252
TC7MB3257FK
Q1251
DTC114YUA
IC1253
BR24L02FV-W
IC1254
TC7MB3257FK
Q1252
DTC114YUA
Q1281
HN1K02FU
Q1253
DTC114YUA
IC1255
TC7WBD125AFK
IC1257
TC7WBD125AFK
DSDA0
DSCL0
DSDA1
DSCL1
USCL
USDA
SW1SEL
WP1
WP2
WP3

AK 1/3 HDMI & DVC ASSY (AWX8975)

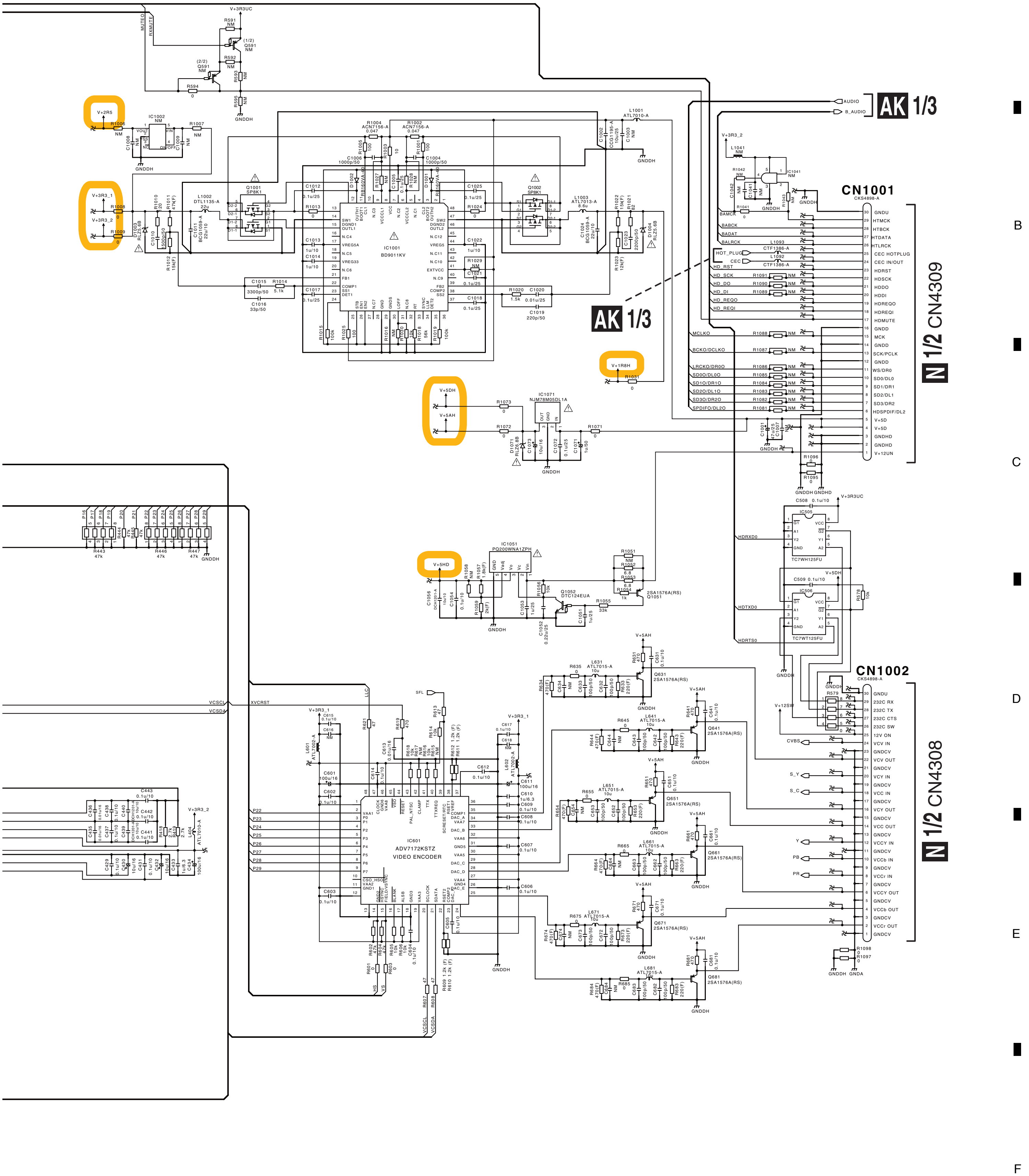


IC101
SII9135CTU
HDMI Receiver
IC301
SII9134CTU
HDMI Transmitter
DSCL0
DSDA0
DSCL1
DSDA1
R108
R111 1k
R109 1k
R157
R158
C152 0.01u/16
C153 0.01u/16
GNDDH
R141
R142
R143
R144
ACN1275-A
DV
AK 2/3,3/3
V+3R3_2
L201 NM
L202 NM
C202 NM
IC202
HDMCLK
C203 NM
ICLK
FBIN
VDD1
CLK
GND1
VDD2
CLK/2
GND2
R207 NM
C204 NM
R210 0
IC204
C206 NM
R208 NM
SELECT
R212 NM
IC203
IC205
R211 0
C207 NM
HDSPDIF
R209 NM
C205 NM
R213 NM
R214 NM
Q201 NM
L203 NM
L204 NM
L205 NM
L206 NM
L207 VTL1169
R215 0
SCK
IC206 NM
C208 NM
R216 NM
R217 0
WS
IC207 NM
C209 NM
R218 NM
DSD
J_RDCT
C210 470u/50
C201 0.1u/10
IC201
TC74LCX541FTS1
SD0
SD1
SD2
SD3
R201 68
R204 68
R205 68
R202 68
R206 47
MCLKO
SD0O/DL0O
SD1O/DR1O
SD2O/DL1O
SD3O/DR2O
LRCKO/DR0O
BCKO/DCLKO
SPDIFO/DL2O
AK 2/3
AUDIO
UC
DACFF
R114
R115
R137
R116 47
R117 39
R122 1M
R123 1.5k
X101 ASS7068-A 27M
C127 12p/50 CH
C128 10p/50 CH
C131
R125 470
RXRST
HDMCLK
R118
R119
R138
R120 47k
R121 47k
AK 2/3,3/3
V+3TX
R361
R360 100
C352 NM
HDMI OUT
JA301
AKP7220-A
TX2+
TX2-
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-
L351
L352
L353
L354
ATH7022-A
RT1
RT3
RT2
RT4
NC
Data2+
Data2 Shield
Data2-
Data1+
Data1 Shield
Data1-
Data0+
Data0 Shield
Data0-
Clock+
Clock Shield
Clock-
CEC
SCL
SDA
DDC/CEC GND
+5V
Hot Plug Detect
V+5HD
C351 0.1u/10
R359 47k
VA351 NM
VA352 NM
VA353 NM
VA354 NM
VA355 NM
VA356 NM
VA357 NM
VA358 NM
HOT_PLUG
CEC
AK 2/3
Q351 (1/2) UMB1N
Q351 (2/2) UMB1N
R357 0
Q353 NM
R355 NM
R356 NM
R351 4.7k
R352 4.7k
R353 2.7k
R354 2.7k
R358 0
Q352 DTC114YUA
VA359 NM
VA360 NM
DSCL
DSDA
TXRST
PUSEL
R301 47
R303 470
IC251
TC74LCX157FTS1
R251 100
R255 100
R252 68
R253 68
R256 68
R254 68
BAMCK
BADAT
BABCK
BALRCK
XBAOUT
B_AUDIO
AK 2/3
L251 VTL1169
C251 0.1u/10
C252 NM
SD0
SCK
WS
HDMCLK

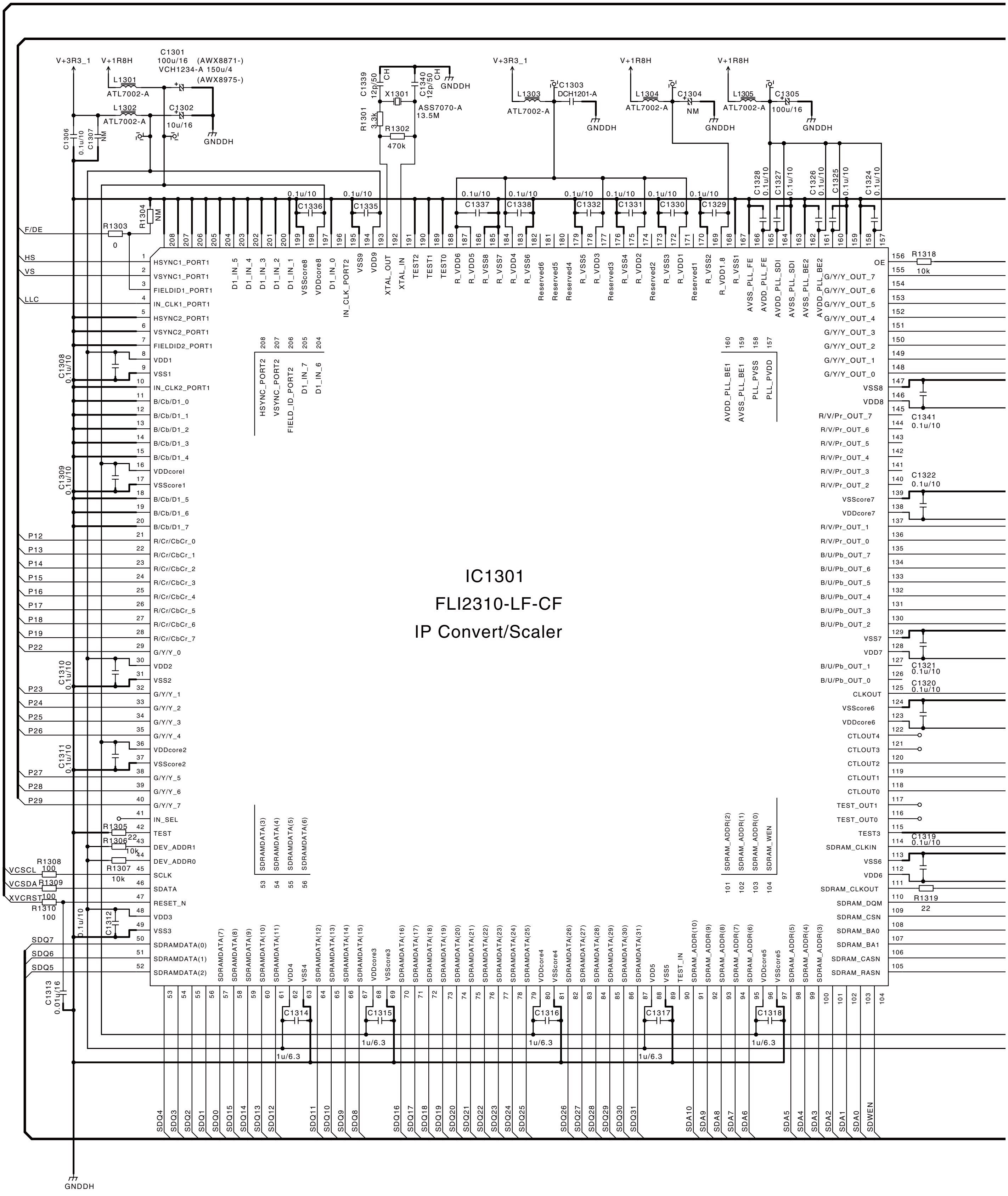
10.36 HDMI & DVC ASSY (2/3) (VSX-LX60)


A
B
C
D
E
F
AK 1/3,3/3
UC
DV
CN502
VKN1411-A
CN2703
K 4/4
IC504
BU4094BCFV
IC501
PEG118A
CPU
IC502
AYW7181-A
IC503
CN501
IC452
DDR REG
AK 3/3
DECDV
IC471
256Mbit DDR SDRAM
IC401
ADV7800BSTZ-80
VIDEO DECODER
IC402
TC7WHU04FU
X401
ASS7069-A
28.63636M
X501
XSS3004-A
15.7M
L501
ATL7002-A
L402
ATL7010-A
L401
ATL7010-A
L406
ATL7010-A
V+3R3_2
V+3R3UC
V+1R8DE
V+3DE
V+1R8H
V+2R5
V+1R25
V+5DH
V+12
V+12SW
GNDDH
GNDD
S_C
S_Y
CVBS
PR
PB
Y
AK 2/3

AK 2/3 HDMI & DVC ASSY (AWX8975)

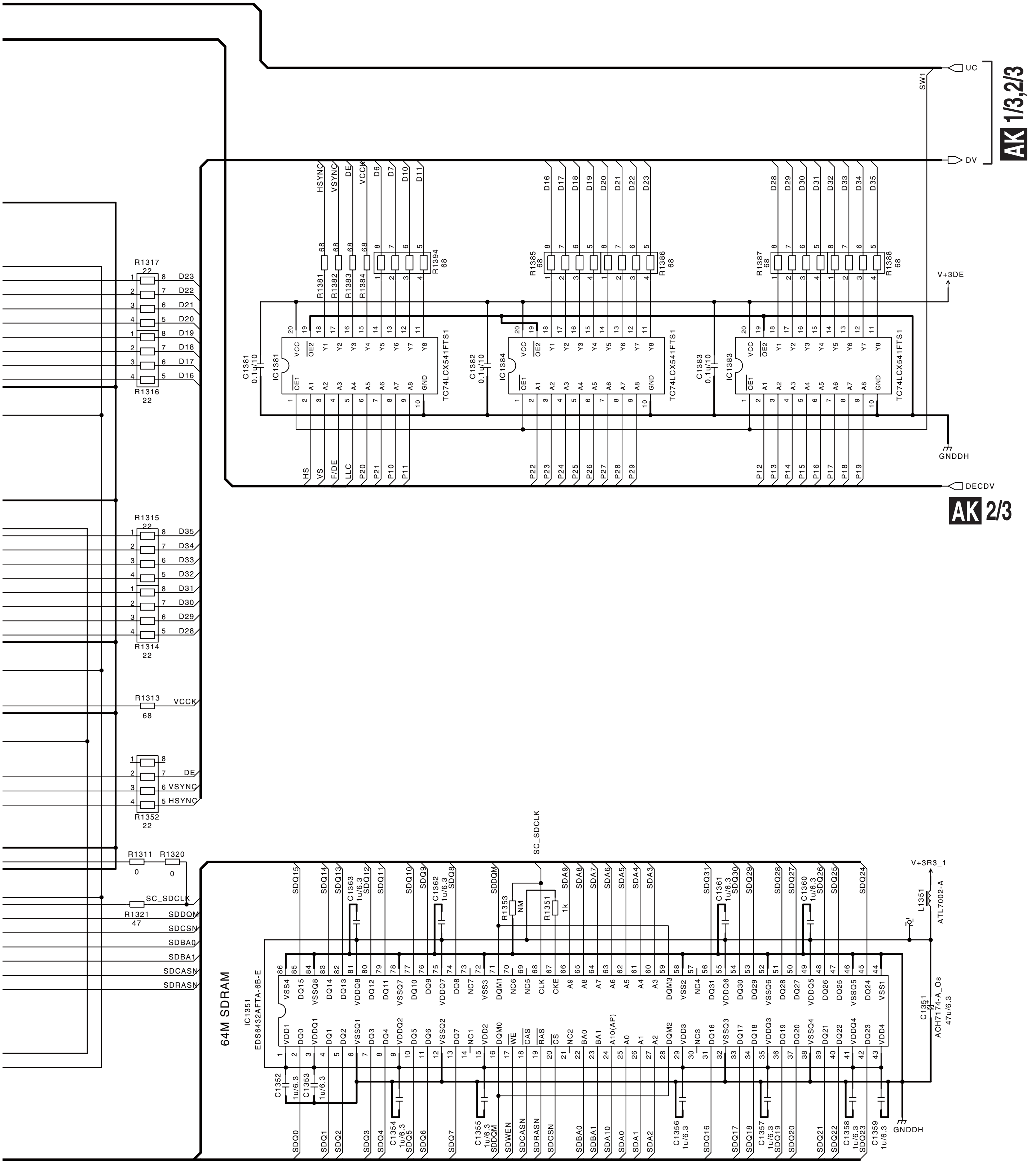

A
B
C
D
E
F
AK 1/3
AUDIO
B_AUDIO
CN1001
CKS4898-A
N 1/2 CN4309
CN1002
CKS4898-A
N 1/2 CN4308
IC1001
BD9011KV
IC1002
IC1041
IC1051
PQ200WNA1ZPH
IC1071
NJM78M05DL1A
IC505
TC7WH125FU
IC506
TC7WT125FU
IC601
ADV7172KSTZ
VIDEO ENCODER
Q1001
SP8K1
Q1002
SP8K1
Q591
Q1051
2SA1576A(RS)
Q1052
DTC124EUA
Q631
Q641
Q651
Q661
Q671
Q681
2SA1576A(RS)
L1001
ATL7010-A
L1002
DTL1135-A
L1003
ATL7013-A
L601
ATL7002-A
L602
ATL7002-A
L404
ATL7010-A
V+3R3UC
V+2R5
V+3R3_1
V+3R3_2
V+1R8H
V+5DH
V+5AH
V+5HD
V+12SW
MUTEO
RXMUTE
GNDDH
GNDDH GNDHD
GNDDH GNDA
GNDU
HTCMK
HTBCK
HTDATA
HTLRCK
CEC HOTPLUG
CEC IN/OUT
HDRST
HDSCK
HDDO
HDDI
HDREQO
HDREQI
HDMUTE
GNDD
MCK
SCK/PCLK
WS/DR0
SD0/DL0
SD1/DR1
SD2/DL1
SD3/DR2
HDSPDIF/DL2
V+5D
GNDHD
V+12UN
BAMCK
BABCK
BADAT
BALRCK
HOT_PLUG
CEC
HD_RST
HD_SCK
HD_DO
HD_DI
HD_REQO
HD_REQI
MCLKO
BCKO/DCLKO
LRCKO/DR0O
SD0O/DL0O
SD1O/DR1O
SD2O/DL1O
SD3O/DR2O
SPDIFO/DL2O
HDRXD0
HDTXD0
HDRTS0
232C RX
232C TX
232C CTS
232C SW
12V ON
VCV IN
GNDCV
VCV OUT
VCY IN
VCC IN
VCY OUT
VCC OUT
VCCY IN
VCCb IN
VCCr IN
VCCY OUT
VCCb OUT
VCCr OUT
CVBS
S_Y
S_C
Y
PB
PR
SFL
VCSCL
VCSDA
XVCRST
LLC
P22
P23
P24
P25
P26
P27
P28
P29

10.37 HDMI & DVC ASSY (3/3) (VSX-LX60)


A
B
C
D
E
F
IC1301
FLI2310-LF-CF
IP Convert/Scaler
V+3R3_1
V+1R8H
C1301
100u/16 (AWX8871-)
VCH1234-A 150u/4
(AWX8975-)
L1301
ATL7002-A
L1302
ATL7002-A
C1302
10u/16
GNDDH
C1306
0.1u/10
C1307
NM
C1339
12p/50
CH
C1340
12p/50
CH
X1301
ASS7070-A
13.5M
R1301
3.3k
R1302
470k
L1303
ATL7002-A
C1303
DCH1201-A
L1304
ATL7002-A
C1304
NM
L1305
ATL7002-A
C1305
100u/16
C1328
C1327
C1326
C1325
C1324
0.1u/10
C1336
C1335
C1337
C1338
C1332
C1331
C1330
C1329
R1303
0
R1304
NM
F/DE
HS
VS
LLC
C1308
0.1u/10
C1309
0.1u/10
C1310
0.1u/10
C1311
0.1u/10
C1312
0.1u/10
C1313
0.01u/16
P12
P13
P14
P15
P16
P17
P18
P19
P22
P23
P24
P25
P26
P27
P28
P29
R1305
22
R1306
10k
R1307
10k
R1308
100
R1309
100
R1310
100
VCSCL
VCSDA
XVCRST
SDQ7
SDQ6
SDQ5
1 HSYNC1_PORT1
2 VSYNC1_PORT1
3 FIELDID1_PORT1
4 IN_CLK1_PORT1
5 HSYNC2_PORT1
6 VSYNC2_PORT1
7 FIELDID2_PORT1
8 VDD1
9 VSS1
10 IN_CLK2_PORT1
11 B/Cb/D1_0
12 B/Cb/D1_1
13 B/Cb/D1_2
14 B/Cb/D1_3
15 B/Cb/D1_4
16 VDDcoreI
17 VSScore1
18 B/Cb/D1_5
19 B/Cb/D1_6
20 B/Cb/D1_7
21 R/Cr/CbCr_0
22 R/Cr/CbCr_1
23 R/Cr/CbCr_2
24 R/Cr/CbCr_3
25 R/Cr/CbCr_4
26 R/Cr/CbCr_5
27 R/Cr/CbCr_6
28 R/Cr/CbCr_7
29 G/Y/Y_0
30 VDD2
31 VSS2
32 G/Y/Y_1
33 G/Y/Y_2
34 G/Y/Y_3
35 G/Y/Y_4
36 VDDcore2
37 VSScore2
38 G/Y/Y_5
39 G/Y/Y_6
40 G/Y/Y_7
41 IN_SEL
42 TEST
43 DEV_ADDR1
44 DEV_ADDR0
45 SCLK
46 SDATA
47 RESET_N
48 VDD3
49 VSS3
50 SDRAMDATA(0)
51 SDRAMDATA(1)
52 SDRAMDATA(2)
208 D1_IN_5
207 D1_IN_4
206 D1_IN_3
205 D1_IN_2
204 D1_IN_1
203 VSScore8
202 VDDcore8
201 D1_IN_0
200 IN_CLK_PORT2
199 VSS9
198 VDD9
197 XTAL_OUT
196 XTAL_IN
195 TEST2
194 TEST1
193 TEST0
192 R_VDD6
191 R_VDD5
190 R_VSS8
189 R_VSS7
188 R_VDD4
187 R_VSS6
186 Reserved6
185 Reserved5
184 Reserved4
183 R_VSS5
182 R_VDD3
181 Reserved3
180 R_VSS4
179 R_VDD2
178 Reserved2
177 R_VSS3
176 R_VDD1
175 Reserved1
174 R_VSS2
173 R_VDD1.8
172 R_VSS1
171 AVSS_PLL_FE
170 AVDD_PLL_FE
169 AVDD_PLL_SDI
168 AVSS_PLL_SDI
167 AVSS_PLL_BE2
166 AVDD_PLL_BE2
208 HSYNC_PORT2
207 VSYNC_PORT2
206 FIELD_ID_PORT2
205 D1_IN_7
204 D1_IN_6
160 AVDD_PLL_BE1
159 AVSS_PLL_BE1
158 PLL_PVSS
157 PLL_PVDD
156 OE
155 G/Y/Y_OUT_7
154 G/Y/Y_OUT_6
153 G/Y/Y_OUT_5
152 G/Y/Y_OUT_4
151 G/Y/Y_OUT_3
150 G/Y/Y_OUT_2
149 G/Y/Y_OUT_1
148 G/Y/Y_OUT_0
147 VSS8
146 VDD8
145 R/V/Pr_OUT_7
144 R/V/Pr_OUT_6
143 R/V/Pr_OUT_5
142 R/V/Pr_OUT_4
141 R/V/Pr_OUT_3
140 R/V/Pr_OUT_2
139 VSScore7
138 VDDcore7
137 R/V/Pr_OUT_1
136 R/V/Pr_OUT_0
135 B/U/Pb_OUT_7
134 B/U/Pb_OUT_6
133 B/U/Pb_OUT_5
132 B/U/Pb_OUT_4
131 B/U/Pb_OUT_3
130 B/U/Pb_OUT_2
129 VSS7
128 VDD7
127 B/U/Pb_OUT_1
126 B/U/Pb_OUT_0
125 CLKOUT
124 VSScore6
123 VDDcore6
122 CTLOUT4
121 CTLOUT3
120 CTLOUT2
119 CTLOUT1
118 CTLOUT0
117 TEST_OUT1
116 TEST_OUT0
115 TEST3
114 SDRAM_CLKIN
113 VSS6
112 VDD6
111 SDRAM_CLKOUT
110 SDRAM_DQM
109 SDRAM_CSN
108 SDRAM_BA0
107 SDRAM_BA1
106 SDRAM_CASN
105 SDRAM_RASN
R1318
10k
C1341
0.1u/10
C1322
0.1u/10
C1321
0.1u/10
C1320
0.1u/10
C1319
0.1u/10
R1319
22
53 SDRAMDATA(3)
54 SDRAMDATA(4)
55 SDRAMDATA(5)
56 SDRAMDATA(6)
101 SDRAM_ADDR(2)
102 SDRAM_ADDR(1)
103 SDRAM_ADDR(0)
104 SDRAM_WEN
SDRAMDATA(7)
SDRAMDATA(8)
SDRAMDATA(9)
SDRAMDATA(10)
SDRAMDATA(11)
VDD4
VSS4
SDRAMDATA(12)
SDRAMDATA(13)
SDRAMDATA(14)
SDRAMDATA(15)
VDDcore3
VSScore3
SDRAMDATA(16)
SDRAMDATA(17)
SDRAMDATA(18)
SDRAMDATA(19)
SDRAMDATA(20)
SDRAMDATA(21)
SDRAMDATA(22)
SDRAMDATA(23)
SDRAMDATA(24)
SDRAMDATA(25)
VDDcore4
VSScore4
SDRAMDATA(26)
SDRAMDATA(27)
SDRAMDATA(28)
SDRAMDATA(29)
SDRAMDATA(30)
SDRAMDATA(31)
VDD5
VSS5
TEST_IN
SDRAM_ADDR(10)
SDRAM_ADDR(9)
SDRAM_ADDR(8)
SDRAM_ADDR(7)
SDRAM_ADDR(6)
VDDcore5
VSScore5
SDRAM_ADDR(5)
SDRAM_ADDR(4)
SDRAM_ADDR(3)
C1314
C1315
C1316
C1317
C1318
1u/6.3
SDQ4
SDQ3
SDQ2
SDQ1
SDQ0
SDQ15
SDQ14
SDQ13
SDQ12
SDQ11
SDQ10
SDQ9
SDQ8
SDQ16
SDQ17
SDQ18
SDQ19
SDQ20
SDQ21
SDQ22
SDQ23
SDQ24
SDQ25
SDQ26
SDQ27
SDQ28
SDQ29
SDQ30
SDQ31
SDA10
SDA9
SDA8
SDA7
SDA6
SDA5
SDA4
SDA3
SDA2
SDA1
SDA0
SDWEN
GNDDH

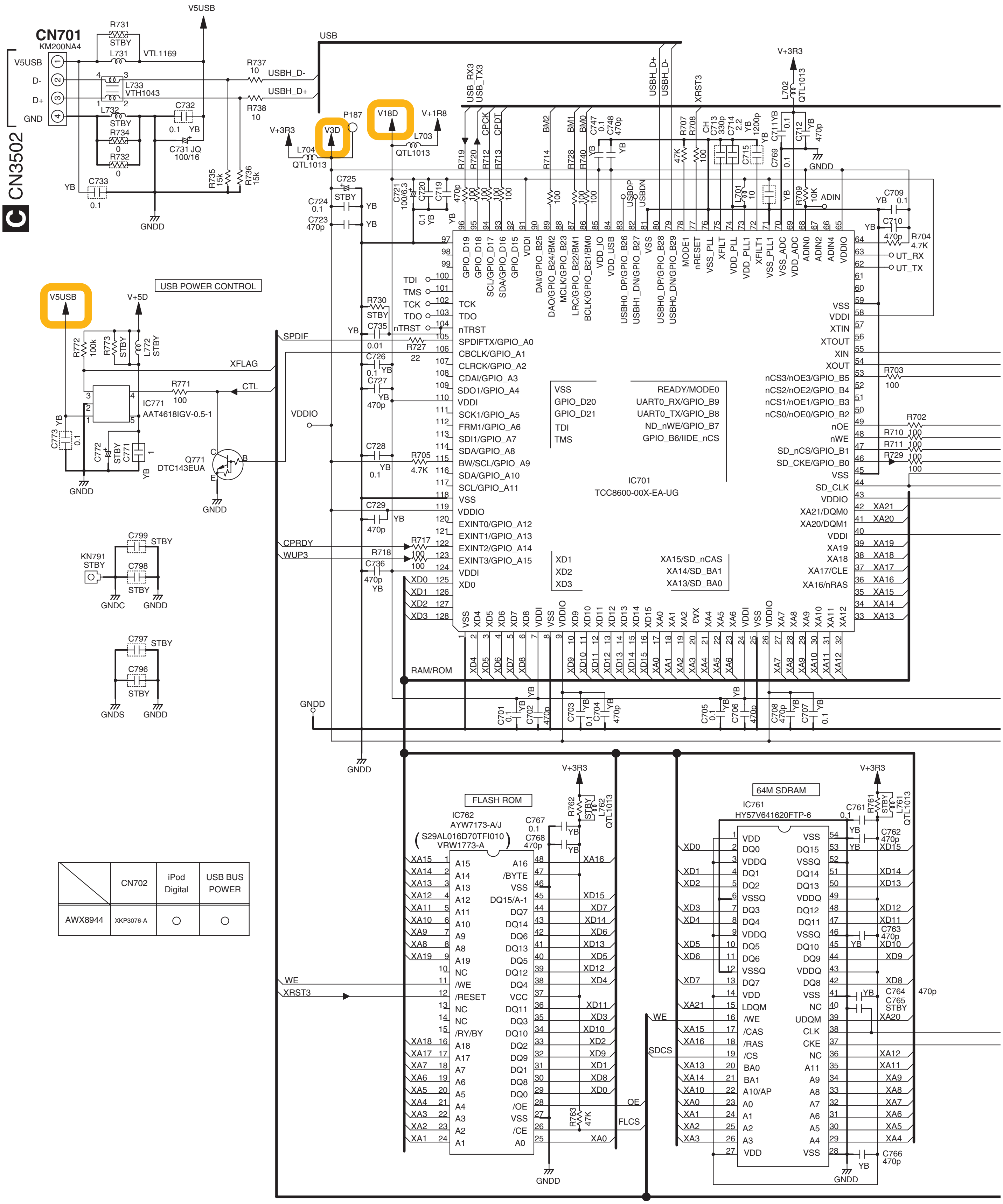
AK 3/3

AK 3/3 HDMI & DVC ASSY (AWX8975)

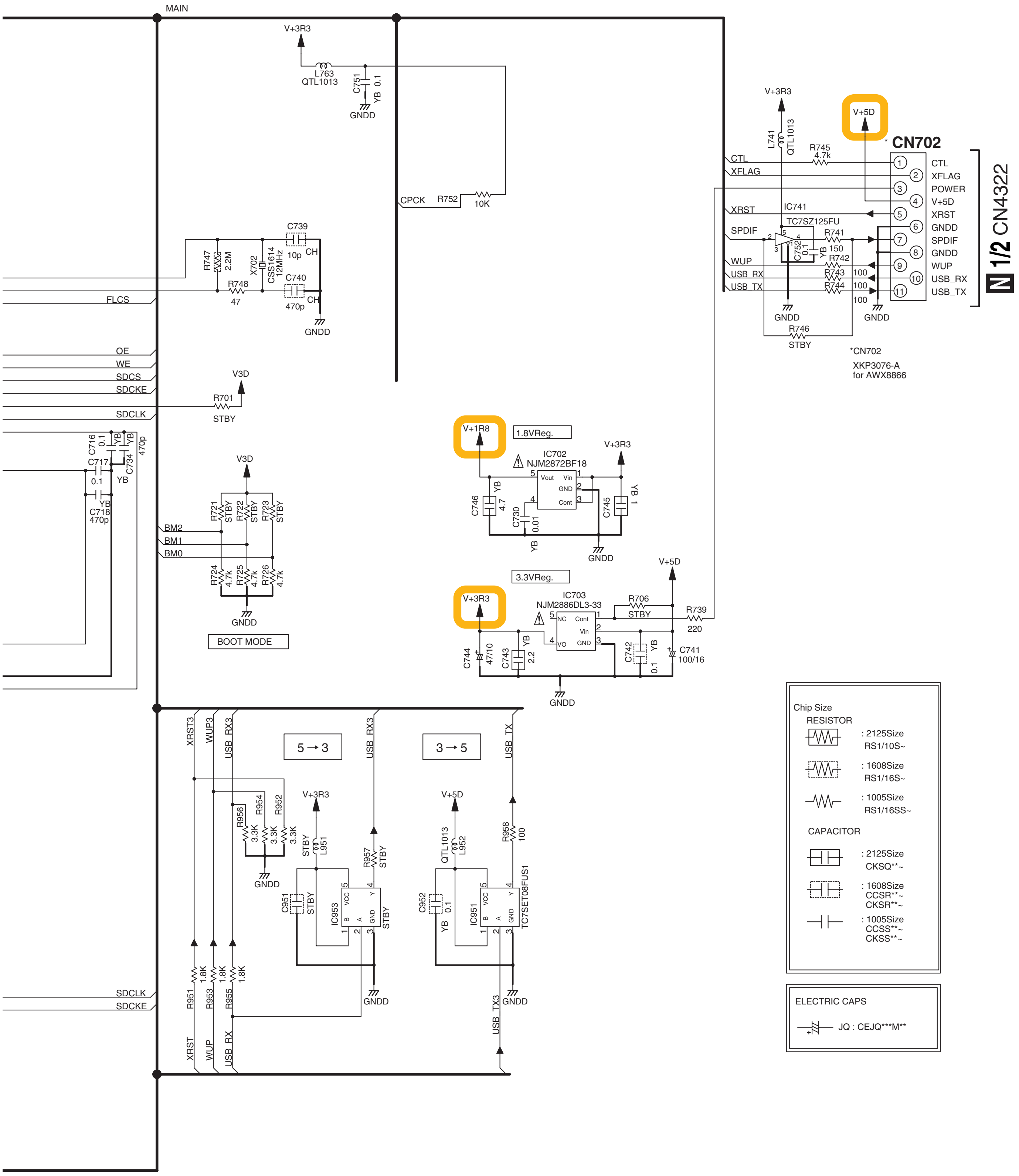

UC
DV
AK 1/3,2/3
SW1
V+3DE
GNDDH
DECDV
AK 2/3
R1317 22
R1316 22
D23
D22
D21
D20
D19
D18
D17
D16
R1315 22
R1314 22
D35
D34
D33
D32
D31
D30
D29
D28
R1313 68
VCCK
R1352 22
DE
VSYNC
HSYNC
R1311 0
R1320 0
R1321 47
SC_SDCLK
SDDQM
SDCSN
SDBA0
SDBA1
SDCASN
SDRASN
HSYNC
VSYNC
DE
VCCK
D6
D7
D10
D11
R1381 68
R1382 68
R1383 68
R1384 68
R1394 68
C1381 0.1u/10
IC1381
TC74LCX541FTS1
HS
VS
F/DE
LLC
P20
P21
P10
P11
R1385 68
R1386 68
C1382 0.1u/10
IC1384
TC74LCX541FTS1
P22
P23
P24
P25
P26
P27
P28
P29
R1387 68
R1388 68
C1383 0.1u/10
IC1383
TC74LCX541FTS1
P12
P13
P14
P15
P16
P17
P18
P19
VCC
OE2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
OE1
A1
A2
A3
A4
A5
A6
A7
A8
GND
64M SDRAM
IC1351
EDS6432AFTA-6B-E
SC_SDCLK
R1353 NM
R1351 1k
C1363 1u/6.3
C1362 1u/6.3
C1361 1u/6.3
C1360 1u/6.3
C1352 1u/6.3
C1353 1u/6.3
C1354 1u/6.3
C1355 1u/6.3
C1356 1u/6.3
C1357 1u/6.3
C1358 1u/6.3
C1359 1u/6.3
V+3R3_1
L1351 ATL7002-A
C1351 ACH7174-A_Os 47u/6.3
GNDDH
SDQ0
SDQ1
SDQ2
SDQ3
SDQ4
SDQ5
SDQ6
SDQ7
SDQ8
SDQ9
SDQ10
SDQ11
SDQ12
SDQ13
SDQ14
SDQ15
SDQ16
SDQ17
SDQ18
SDQ19
SDQ20
SDQ21
SDQ22
SDQ23
SDQ24
SDQ25
SDQ26
SDQ27
SDQ28
SDQ29
SDQ30
SDQ31
SDDQM
SDWEN
SDCASN
SDRASN
SDCSN
SDBA0
SDBA1
SDA0
SDA1
SDA2
SDA3
SDA4
SDA5
SDA6
SDA7
SDA8
SDA9
SDA10
VSS4
DQ15
VSSQ8
DQ14
DQ13
VDDQ8
DQ12
DQ11
VSSQ7
DQ10
DQ9
VDDQ7
DQ8
NC7
VSS3
DQM1
NC6
NC5
CLK
CKE
A9
A8
A7
A6
A5
A4
A3
DQM3
VSS2
NC4
DQ31
VDDQ6
DQ30
DQ29
VSSQ6
DQ28
DQ27
VDDQ5
DQ26
DQ25
VSSQ5
DQ24
VSS1
VDD1
DQ0
VDDQ1
DQ1
DQ2
VSSQ1
DQ3
DQ4
VDDQ2
DQ5
DQ6
VSSQ2
DQ7
NC1
VDD2
DQM0
WE
CAS
RAS
CS
NC2
BA0
BA1
A10(AP)
A0
A1
A2
DQM2
VDD3
NC3
DQ16
VSSQ3
DQ17
DQ18
VDDQ3
DQ19
DQ20
VSSQ4
DQ21
DQ22
VDDQ4
DQ23
VDD4

10.38 USB ASSY (VSX-LX60)

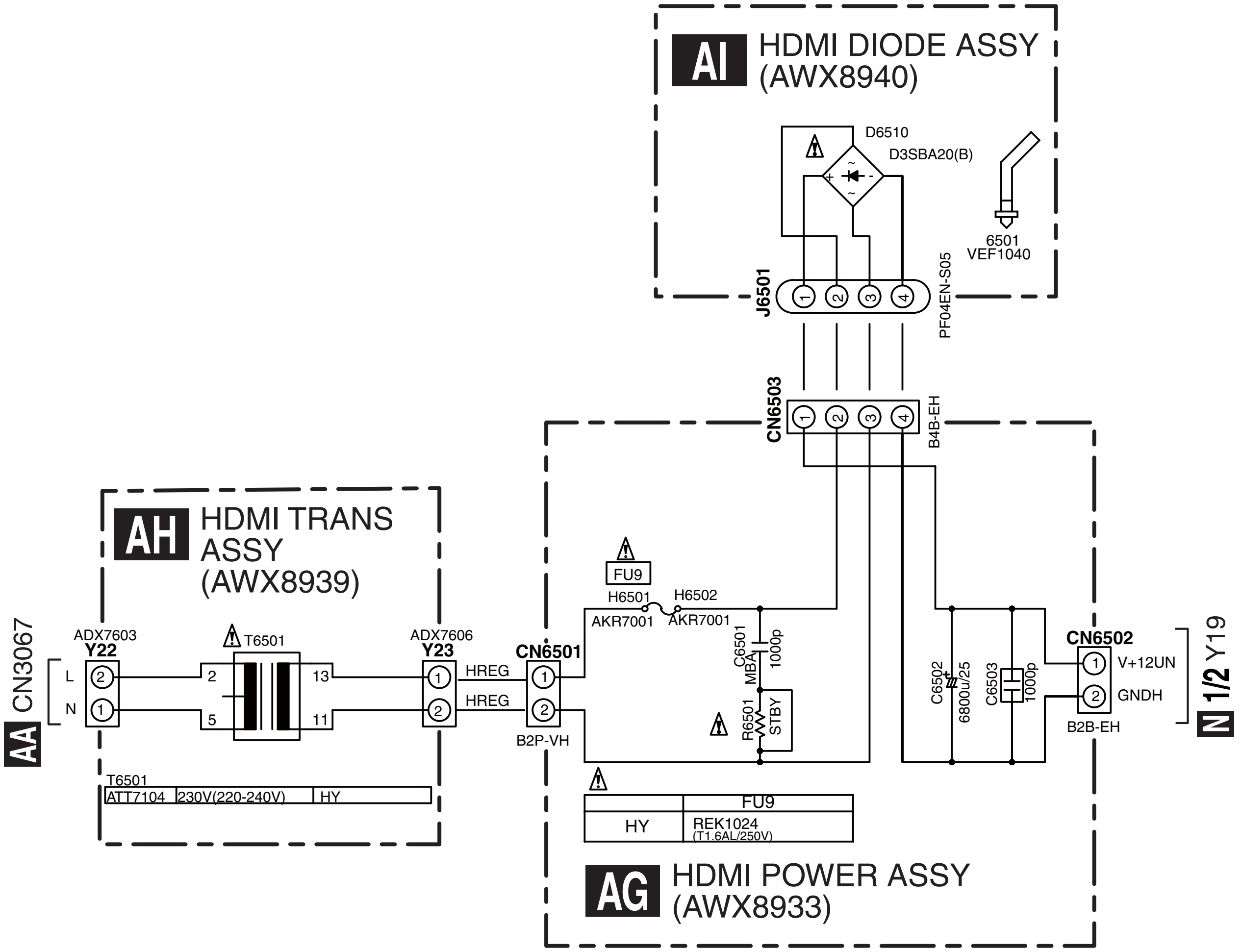
AM USB ASSY (AWX8944)


C CN3502
CN701
KM200NA4
V5USB
D-
D+
GND
R731
STBY
L731
VTL1169
L733
VTH1043
L732
STBY
R734
0
R732
0
C732
0.1 YB
C731 JQ
100/16
C733
0.1
YB
GNDD
V5USB
R737
10
USBH_D-
USBH_D+
R738
10
R735
15k
R736
15k
USB
V+3R3
L704
QTL1013
V3D
P187
V18D
V+1R8
L703
QTL1013
C725
STBY
C724
0.1
C723
470p
YB
USB_RX3
USB_TX3
CPCK
CPDT
BM2
BM1
BM0
USBH_D+
USBH_D-
XRST3
V+3R3
L702
QTL1013
GNDD
ADIN
C709
0.1
C710
470p
R704
4.7K
UT_RX
UT_TX
USB POWER CONTROL
V5USB
V+5D
R772
100k
R773
STBY
L772
STBY
XFLAG
CTL
R771
100
IC771
AAT4618IGV-0.5-1
C773
0.1
YB
C772
STBY
C771
Q771
DTC143EUA
GNDD
SPDIF
VDDIO
CPRDY
WUP3
R730
STBY
C735
0.01
R727
22
C726
0.1
C727
470p
C728
R705
4.7K
C729
470p
R717
100
R718
100
C736
470p
TDI
TMS
TCK
TDO
nTRST
IC701
TCC8600-00X-EA-UG
GPIO_D19
GPIO_D18
SCL/GPIO_D17
SDA/GPIO_D16
GPIO_D15
VDDI
DAI/GPIO_B25
DAO/GPIO_B24/BM2
MCLK/GPIO_B23
LRC/GPIO_B22/BM1
BCLK/GPIO_B21/BM0
VDD_IO
VDD_USB
USBH0_DP/GPIO_B26
USBH1_DN/GPIO_B27
VSS
USBH0_DP/GPIO_B28
USBH0_DN/GPIO_B29
MODE1
nRESET
VSS_PLL
XFILT
VDD_PLL1
VDD_PLL1
XFILT1
VSS_PLL1
VSS_ADC
VDD_ADC
ADIN0
ADIN2
ADIN4
VDDIO
SPDIFTX/GPIO_A0
CBCLK/GPIO_A1
CLRCK/GPIO_A2
CDAI/GPIO_A3
SDO1/GPIO_A4
SCK1/GPIO_A5
FRM1/GPIO_A6
SDI1/GPIO_A7
SDA/GPIO_A8
BW/SCL/GPIO_A9
SDA/GPIO_A10
SCL/GPIO_A11
EXINT0/GPIO_A12
EXINT1/GPIO_A13
EXINT2/GPIO_A14
EXINT3/GPIO_A15
XTIN
XTOUT
XIN
XOUT
nCS3/nOE3/GPIO_B5
nCS2/nOE2/GPIO_B4
nCS1/nOE1/GPIO_B3
nCS0/nOE0/GPIO_B2
nOE
nWE
SD_nCS/GPIO_B1
SD_CKE/GPIO_B0
SD_CLK
XA21/DQM0
XA20/DQM1
XA19
XA18
XA17/CLE
XA16/nRAS
READY/MODE0
UART0_RX/GPIO_B9
UART0_TX/GPIO_B8
ND_nWE/GPIO_B7
GPIO_B6/IIDE_nCS
GPIO_D20
GPIO_D21
XA15/SD_nCAS
XA14/SD_BA1
XA13/SD_BA0
R703
100
R702
100
R710
100
R711
100
R729
100
RAM/ROM
C701
0.1
C702
470p
C703
0.1
C704
470p
C705
0.1
C706
470p
C708
470p
C707
0.1
GNDD
FLASH ROM
IC762
AYW7173-A/J
S29AL016D70TFI010
VRW1773-A
V+3R3
R762
STBY
L762
QTL1013
C767
0.1
C768
470p
R763
47K
WE
XRST3
OE
FLCS
64M SDRAM
IC761
HY57V641620FTP-6
R761
STBY
L761
QTL1013
C761
0.1
C762
470p
C763
470p
C764
C765
STBY
C766
470p
SDCS
KN791
STBY
C799
STBY
C798
STBY
GNDC
C797
STBY
C796
STBY
GNDS

	CN702	iPod Digital	USB BUS POWER
AWX8944	XKP3076-A	○	○


MAIN
V+3R3
L763
QTL1013
C751
0.1
YB
GNDD
CPCK
R752
10K
C739
10p
CH
R747
2.2M
X702
CSS1614
12MHz
C740
470p
R748
47
FLCS
OE
WE
SDCS
SDCKE
SDCLK
V3D
R701
STBY
C716
0.1
YB
C717
0.1
C734
470p
C718
470p
BM2
BM1
BM0
R721
R722
R723
R724
4.7k
R725
4.7k
R726
4.7k
BOOT MODE
V+1R8
1.8VReg.
IC702
NJM2872BF18
Vout
Vin
GND
Cont
C746
4.7
C730
0.01
C745
1
3.3VReg.
IC703
NJM2886DL3-33
NC
Cont
Vin
VO
GND
R706
STBY
V+5D
R739
220
C744
47/10
C743
2.2
C742
0.1
C741
100/16
V+3R3
L741
QTL1013
R745
4.7k
V+5D
CN702
CTL
XFLAG
XRST
SPDIF
WUP
USB_RX
USB_TX
IC741
TC7SZ125FU
R741
150
C752
0.1
R742
R743
100
R744
100
100
R746
STBY
1 CTL
2 XFLAG
3 POWER
4 V+5D
5 XRST
6 GNDD
7 SPDIF
8 GNDD
9 WUP
10 USB_RX
11 USB_TX
*CN702
XKP3076-A
for AWX8866
N 1/2 CN4322
XRST3
WUP3
USB_RX3
5→3
USB_RX3
3→5
USB_TX
V+3R3
V+5D
R956
R954
R952
3.3K
L951
L952
QTL1013
R957
STBY
R958
100
C951
C952
IC953
IC951
VCC
B
A
GND
Y
TC7SET08FUS1
R951
R953
R955
1.8K
SDCLK
SDCKE
XRST
WUP
USB_RX
USB_TX3
Chip Size
RESISTOR
: 2125Size RS1/10S~
: 1608Size RS1/16S~
: 1005Size RS1/16SS~
CAPACITOR
: 2125Size CKSQ**~
: 1608Size CCSR**~ CKSR**~
: 1005Size CCSS**~ CKSS**~
ELECTRIC CAPS
JQ : CEJQ***M**

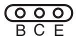
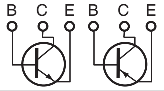
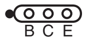
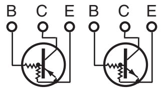
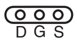
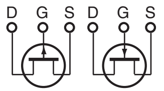
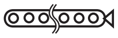
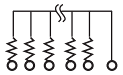
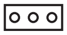
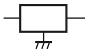
10.39 HDMI POWER, HDMI TRANS and HDMI DIODE ASSYS


AI
HDMI DIODE ASSY
(AWX8940)
D6510
D3SBA20(B)
6501
VEF1040
J6501
PF04EN-S05
CN6503
B4B-EH
AH
HDMI TRANS
ASSY
(AWX8939)
AA
CN3067
L
N
ADX7603
Y22
T6501
2
5
13
11
ADX7606
Y23
HREG
HREG
T6501
ATT7104
230V(220-240V)
HY
CN6501
B2P-VH
FU9
H6501
AKR7001
H6502
AKR7001
C6501
MBA
1000p
R6501
STBY
C6502
6800u/25
C6503
1000p
CN6502
V+12UN
GNDH
B2B-EH
N 1/2 Y19
HY
FU9
REK1024
(T1.6AL/250V)
AG
HDMI POWER ASSY
(AWX8933)

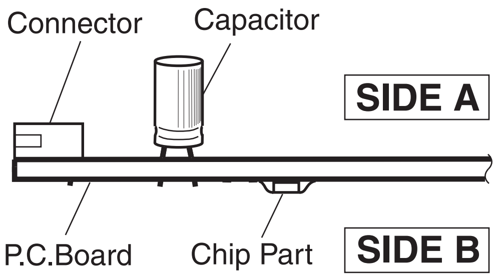
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

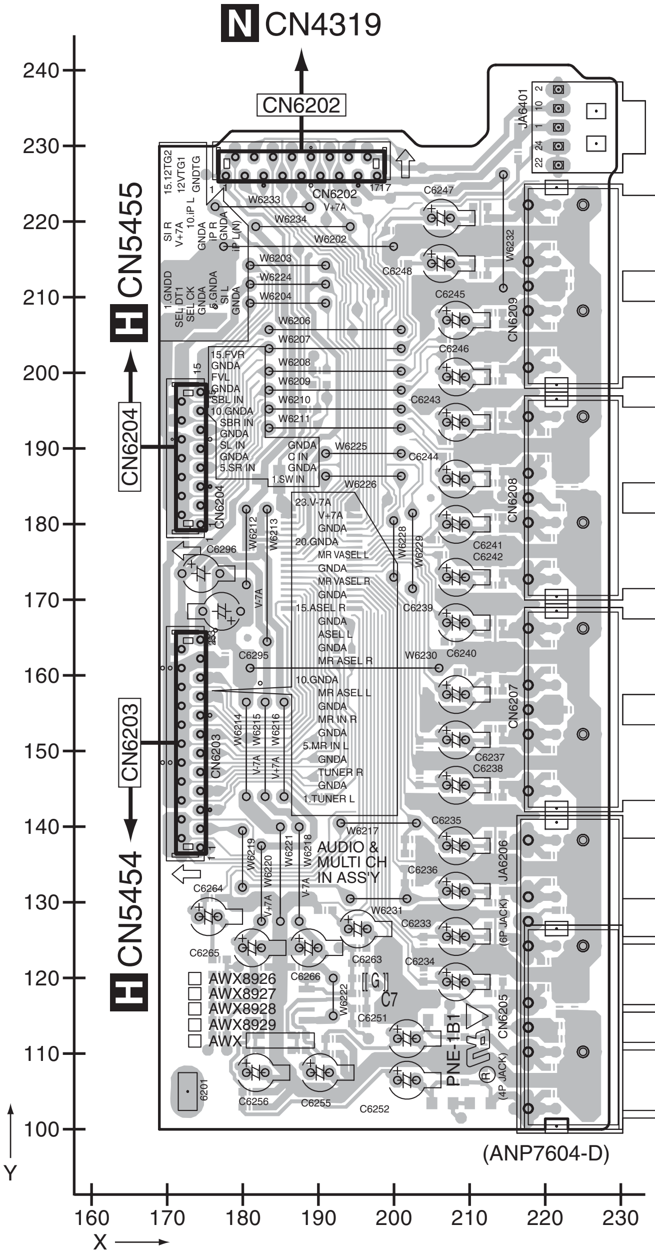

Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

11.1 AUDIO & MULTI CH IN ASSY

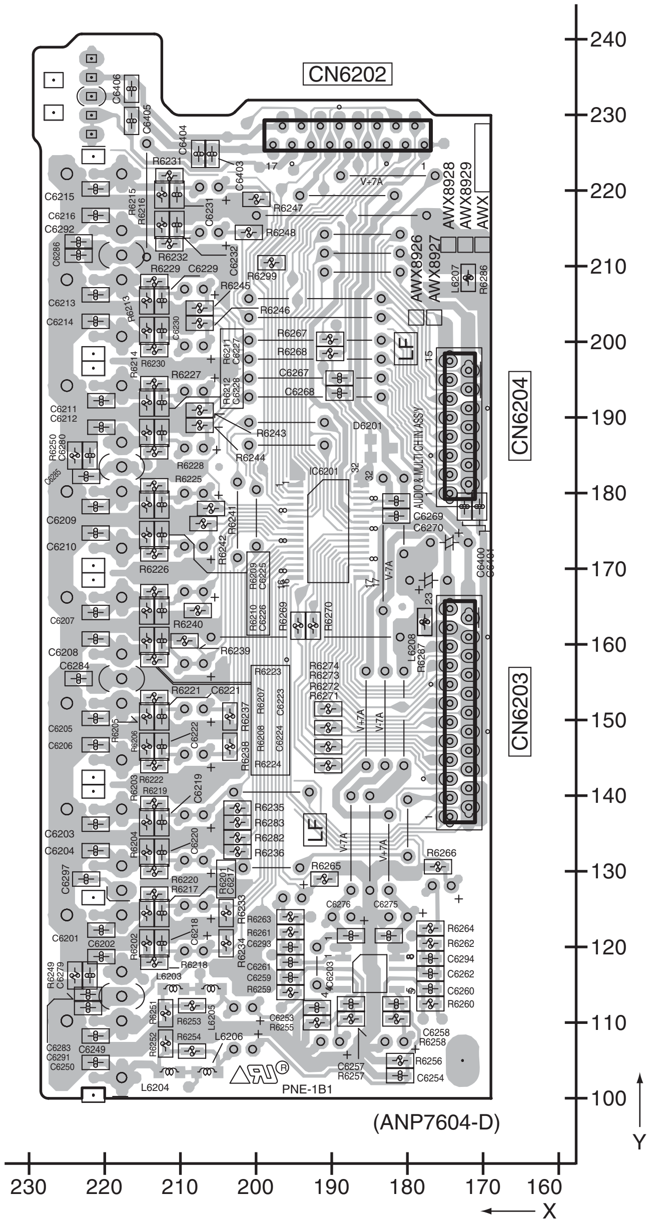
SIDE A

SIDE B

A AUDIO & MULTI CH IN ASSY


N CN4319
CN6202
H CN5455
CN6204
CN6203
H CN5454
JA6401
CN6209
CN6208
CN6207
JA6206
CN6205
AUDIO & MULTI CH IN ASS'Y
AWX8926
AWX8927
AWX8928
AWX8929
AWX
PNE-1B1
(ANP7604-D)
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
Y
160
170
180
190
200
210
220
230
X

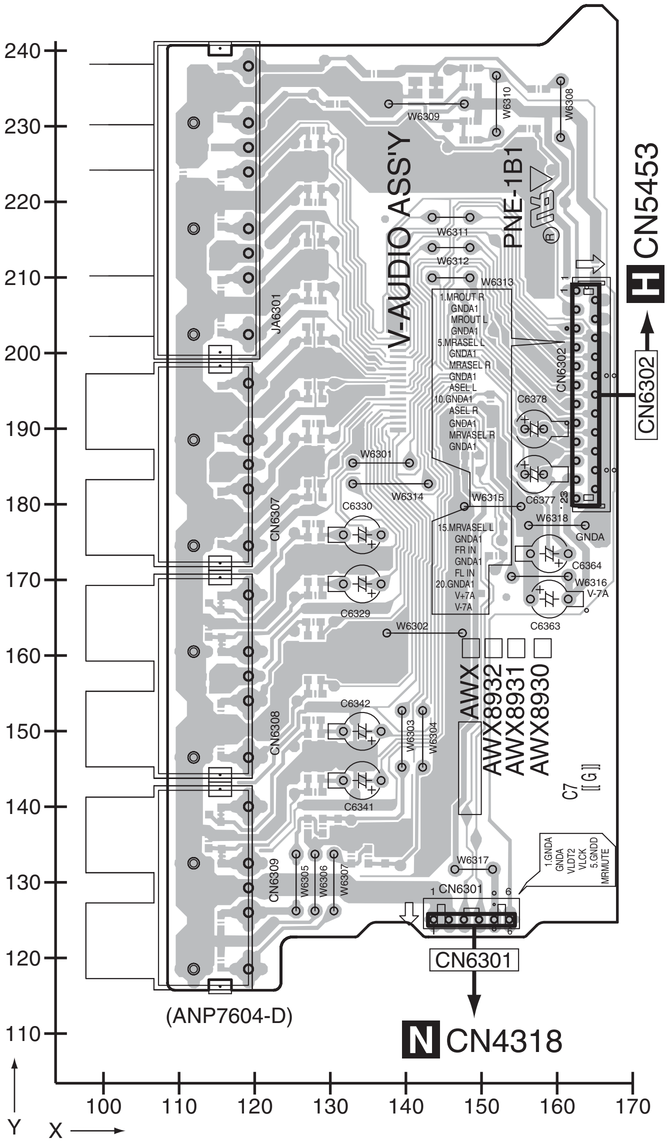
A AUDIO & MULTI CH IN ASSY


CN6202
CN6204
CN6203
IC6201
AWX8928
AWX8929
AWX
AWX8926
AWX8927
AUDIO & MULTI CH IN ASSY
PNE-1B1
(ANP7604-D)
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
Y
230
220
210
200
190
180
170
160
X

11.2 V-AUDIO and HEADPHONE ASSYS

SIDE A

B V-AUDIO ASSY



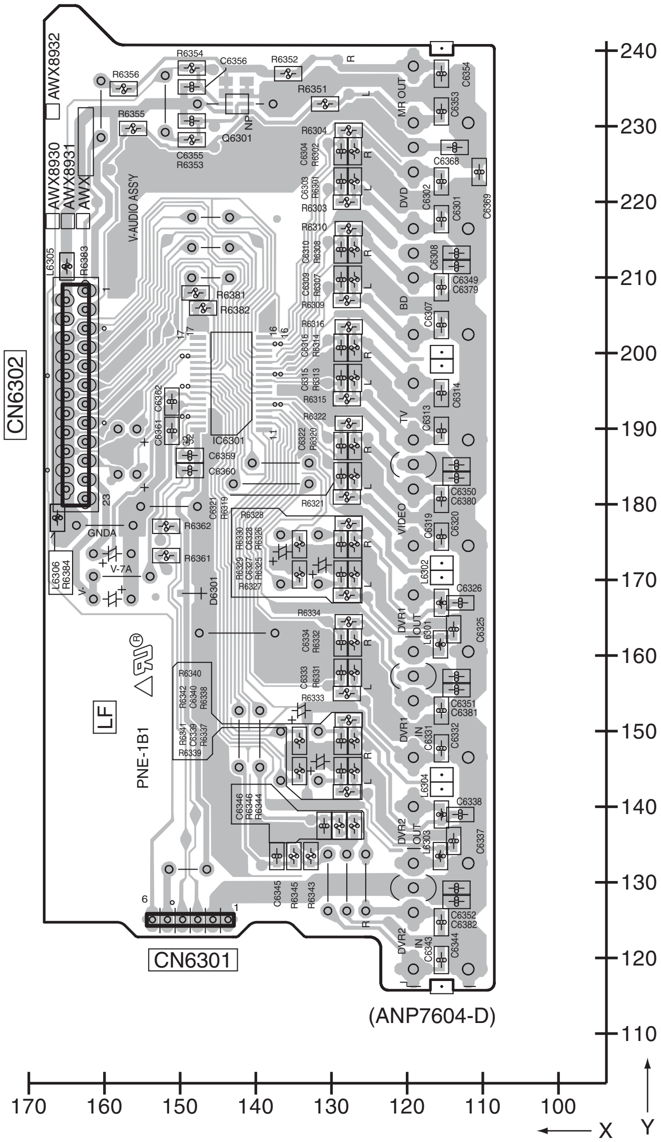
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
110
120
130
140
150
160
170
Y
X
JA6301
CN6307
CN6308
CN6309
W6301
W6302
W6303
W6304
W6305
W6306
W6307
W6308
W6309
W6310
W6311
W6312
W6313
W6314
W6315
W6316
W6317
W6318
C6329
C6330
C6341
C6342
C6363
C6364
C6377
C6378
V-AUDIO ASS'Y
PNE-1B1
CN6302
CN6301
1.MROUT R
GNDA1
MROUT L
GNDA1
5.MRASEL L
GNDA1
MRASEL R
GNDA1
ASEL L
10.GNDA1
ASEL R
GNDA1
MRVASEL R
GNDA1
15.MRVASEL L
GNDA1
FR IN
GNDA1
FL IN
20.GNDA1
V+7A
V-7A
GNDA
-V-7A
AWX
AWX8932
AWX8931
AWX8930
C7
[G]
1.GNDA
GNDA
VLDT2
VLCK
5.GNDD
MRMUTE
(ANP7604-D)

H CN5453

N CN4318

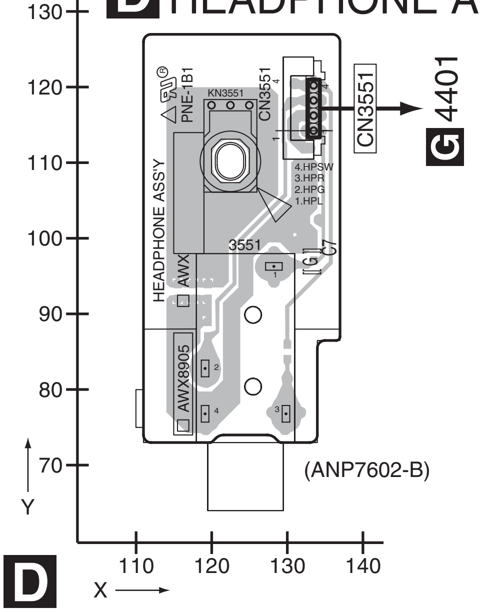
SIDE B

B V-AUDIO ASSY



240
230
220
210
200
190
180
170
160
150
140
130
120
110
170
160
150
140
130
120
110
100
X
Y
AWX8932
AWX8930
AWX8931
AWX
V-AUDIO ASSY
CN6302
CN6301
IC6301
Q6301
D6301
L6301
L6302
L6303
L6304
L6305
L6306
R6351
R6352
R6353
R6354
R6355
R6356
R6361
R6362
R6381
R6382
R6383
R6384
C6354
C6355
C6356
C6359
C6360
C6368
C6369
MR OUT
DVD
BD
TV
VIDEO
DVR1 OUT
DVR1 IN
DVR2 OUT
DVR2 IN
GNDA
V-7A
LF
PNE-1B1
R
L
(ANP7604-D)

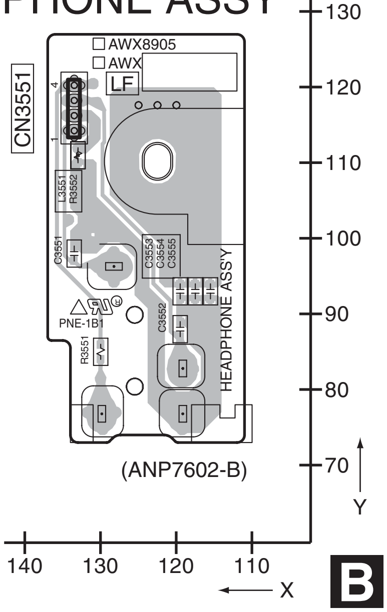
D HEADPHONE ASSY



130
120
110
100
90
80
70
Y
110
120
130
140
X
PNE-1B1
KN3551
CN3551
4.HPSW
3.HPR
2.HPG
1.HPL
3551
C7
[G]
HEADPHONE ASS'Y
AWX
AWX8905
(ANP7602-B)

CN3551 → G 4401

D HEADPHONE ASSY



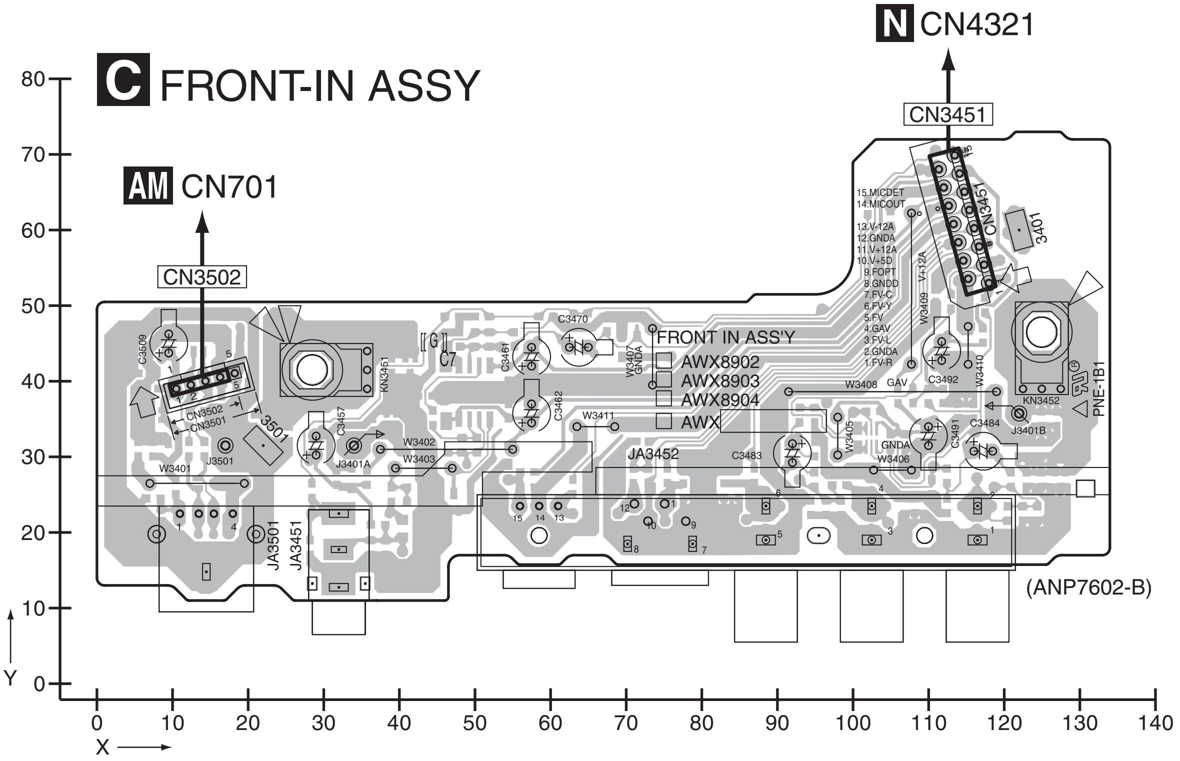
130
120
110
100
90
80
70
Y
140
130
120
110
X
AWX8905
AWX
LF
CN3551
L3551
R3552
C3551
C3553
C3554
C3555
C3552
R3551
PNE-1B1
HEADPHONE ASS'Y
(ANP7602-B)

B D

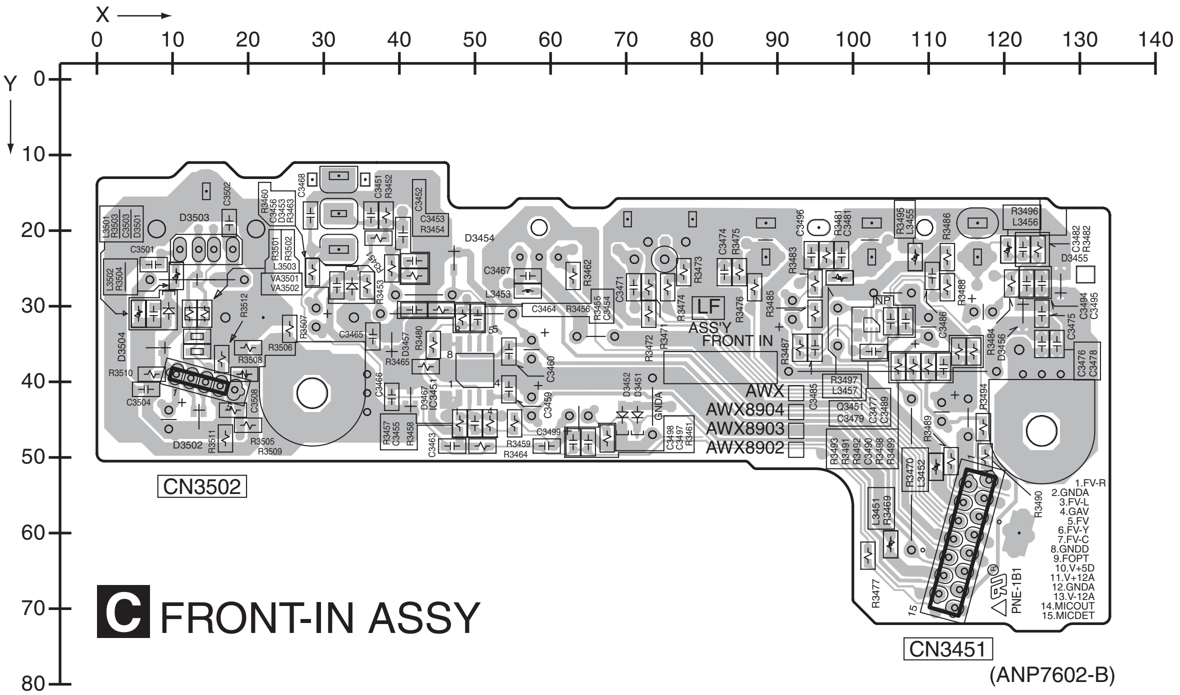
B D

11.3 FRONT-IN ASSY

SIDE A **SIDE A**


C FRONT-IN ASSY
N CN4321
CN3451
AM CN701
CN3502
FRONT IN ASS'Y
AWX8902
AWX8903
AWX8904
AWX
JA3452
JA3501
JA3451
15.MICDET
14.MICOUT
13.V-12A
12.GNDA
11.V+12A
10.V+5D
9.FOPT
8.GNDD
7.FV-C
6.FV-Y
5.FV
4.GAV
3.FV-L
2.GNDA
1.FV-R
PNE-1B1
(ANP7602-B)
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140

SIDE B **SIDE B**

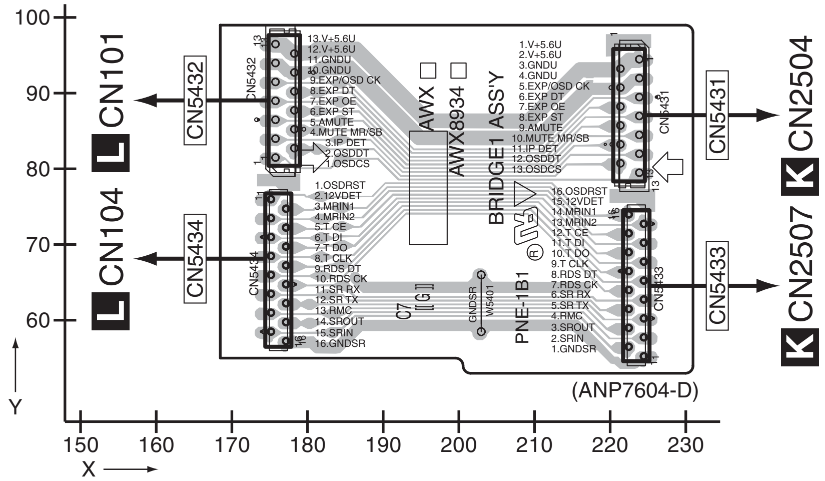

X
Y
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
LF
ASS'Y
FRONT IN
AWX
AWX8904
AWX8903
AWX8902
CN3502
C FRONT-IN ASSY
1.FV-R
2.GNDA
3.FV-L
4.GAV
5.FV
6.FV-Y
7.FV-C
8.GNDD
9.FOPT
10.V+5D
11.V+12A
12.GNDA
13.V-12A
14.MICOUT
15.MICDET
PNE-1B1
CN3451
(ANP7602-B)

11.4 BRIDGE1 and BRIDGE2 ASSYS

SIDE A

E BRIDGE1 ASSY

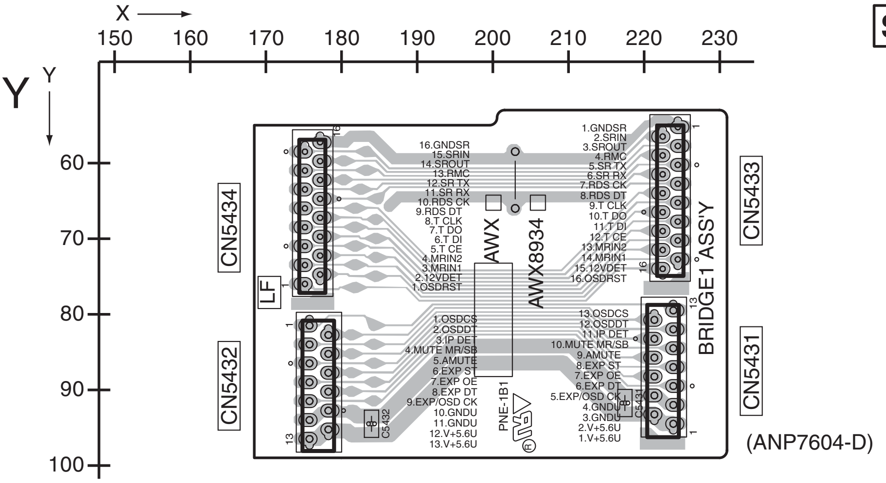
SIDE A


L CN101
CN5432
L CN104
CN5434
CN5431
K CN2504
CN5433
K CN2507
13.V+5.6U
12.V+5.6U
11.GNDU
10.GNDU
9.EXP/OSD CK
8.EXP DT
7.EXP OE
6.EXP ST
5.AMUTE
4.MUTE MR/SB
3.IP DET
2.OSDDT
1.OSDCS
1.OSDRST
2.12VDET
3.MRIN1
4.MRIN2
5.T CE
6.T DI
7.T DO
8.T CLK
9.RDS DT
10.RDS CK
11.SR RX
12.SR TX
13.RMC
14.SROUT
15.SRIN
16.GNDSR
AWX
AWX8934
BRIDGE1 ASS'Y
PNE-1B1
C7
[G]
GNDSR
W5401
16.OSDRST
15.12VDET
14.MRIN1
13.MRIN2
12.T CE
11.T DI
10.T DO
9.T CLK
8.RDS DT
7.RDS CK
6.SR RX
5.SR TX
4.RMC
3.SROUT
2.SRIN
1.GNDSR
1.V+5.6U
2.V+5.6U
3.GNDU
4.GNDU
5.EXP/OSD CK
6.EXP DT
7.EXP OE
8.EXP ST
9.AMUTE
10.MUTE MR/SB
11.IP DET
12.OSDDT
13.OSDCS
(ANP7604-D)
Y
X
100
90
80
70
60
150
160
170
180
190
200
210
220
230

SIDE B

E BRIDGE1 ASSY

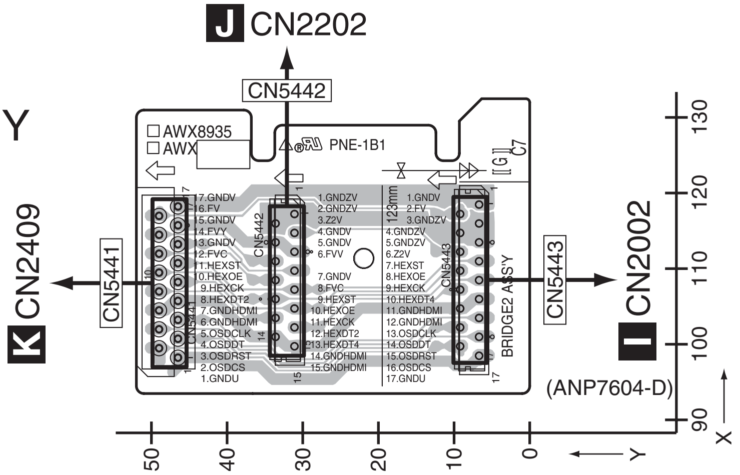
SIDE B


X
150
160
170
180
190
200
210
220
230
Y
60
70
80
90
100
CN5434
CN5432
LF
CN5433
CN5431
16.GNDSR
15.SRIN
14.SROUT
13.RMC
12.SR TX
11.SR RX
10.RDS CK
9.RDS DT
8.T CLK
7.T DO
6.T DI
5.T CE
4.MRIN2
3.MRIN1
2.12VDET
1.OSDRST
1.OSDCS
2.OSDDT
3.IP DET
4.MUTE MR/SB
5.AMUTE
6.EXP ST
7.EXP OE
8.EXP DT
9.EXP/OSD CK
10.GNDU
11.GNDU
12.V+5.6U
13.V+5.6U
AWX
AWX8934
PNE-1B1
BRIDGE1 ASS'Y
1.GNDSR
2.SRIN
3.SROUT
4.RMC
5.SR TX
6.SR RX
7.RDS CK
8.RDS DT
9.T CLK
10.T DO
11.T DI
12.T CE
13.MRIN2
14.MRIN1
15.12VDET
16.OSDRST
13.OSDCS
12.OSDDT
11.IP DET
10.MUTE MR/SB
9.AMUTE
8.EXP ST
7.EXP OE
6.EXP DT
5.EXP/OSD CK
4.GNDU
3.GNDU
2.V+5.6U
1.V+5.6U
(ANP7604-D)

SIDE A

F BRIDGE2 ASSY

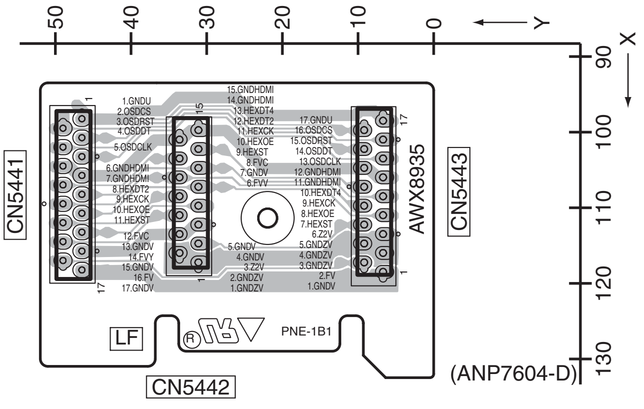
SIDE A


J CN2202
CN5442
AWX8935
AWX
PNE-1B1
C7
[G]
K CN2409
CN5441
CN5443
I CN2002
17.GNDV
16.FV
15.GNDV
14.FVY
13.GNDV
12.FVC
11.HEXST
10.HEXOE
9.HEXCK
8.HEXDT2
7.GNDHDMI
6.GNDHDMI
5.OSDCLK
4.OSDDT
3.OSDRST
2.OSDCS
1.GNDU
1.GNDZV
2.GNDZV
3.Z2V
4.GNDV
5.GNDV
6.FVV
7.GNDV
8.FVC
9.HEXST
10.HEXOE
11.HEXCK
12.HEXDT2
13.HEXDT4
14.GNDHDMI
15.GNDHDMI
123mm
1.GNDV
2.FV
3.GNDZV
4.GNDZV
5.GNDZV
6.Z2V
7.HEXST
8.HEXOE
9.HEXCK
10.HEXDT4
11.GNDHDMI
12.GNDHDMI
13.OSDCLK
14.OSDDT
15.OSDRST
16.OSDCS
17.GNDU
BRIDGE2 ASSY
(ANP7604-D)
130
120
110
100
90
X
50
40
30
20
10
0
Y

SIDE B

F BRIDGE2 ASSY

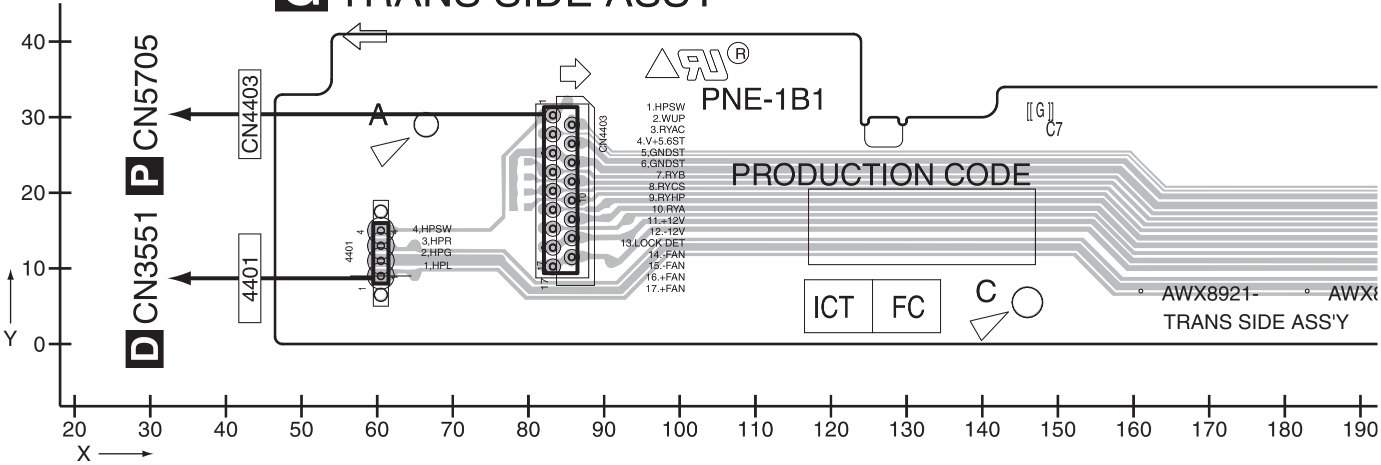
SIDE B


50
40
30
20
10
0
Y
X
90
100
110
120
130
CN5441
CN5443
AWX8935
1.GNDU
2.OSDCS
3.OSDRST
4.OSDDT
5.OSDCLK
6.GNDHDMI
7.GNDHDMI
8.HEXDT2
9.HEXCK
10.HEXOE
11.HEXST
12.FVC
13.GNDV
14.FVY
15.GNDV
16.FV
17.GNDV
15.GNDHDMI
14.GNDHDMI
13.HEXDT4
12.HEXDT2
11.HEXCK
10.HEXOE
9.HEXST
8.FVC
7.GNDV
6.FVV
5.GNDV
4.GNDV
3.Z2V
2.GNDZV
1.GNDZV
17.GNDU
16.OSDCS
15.OSDRST
14.OSDDT
13.OSDCLK
12.GNDHDMI
11.GNDHDMI
10.HEXDT4
9.HEXCK
8.HEXOE
7.HEXST
6.Z2V
5.GNDZV
4.GNDZV
3.GNDZV
2.FV
1.GNDV
LF
PNE-1B1
CN5442
(ANP7604-D)

11.5 TRANS SIDE and BRIDGE3 ASSYS

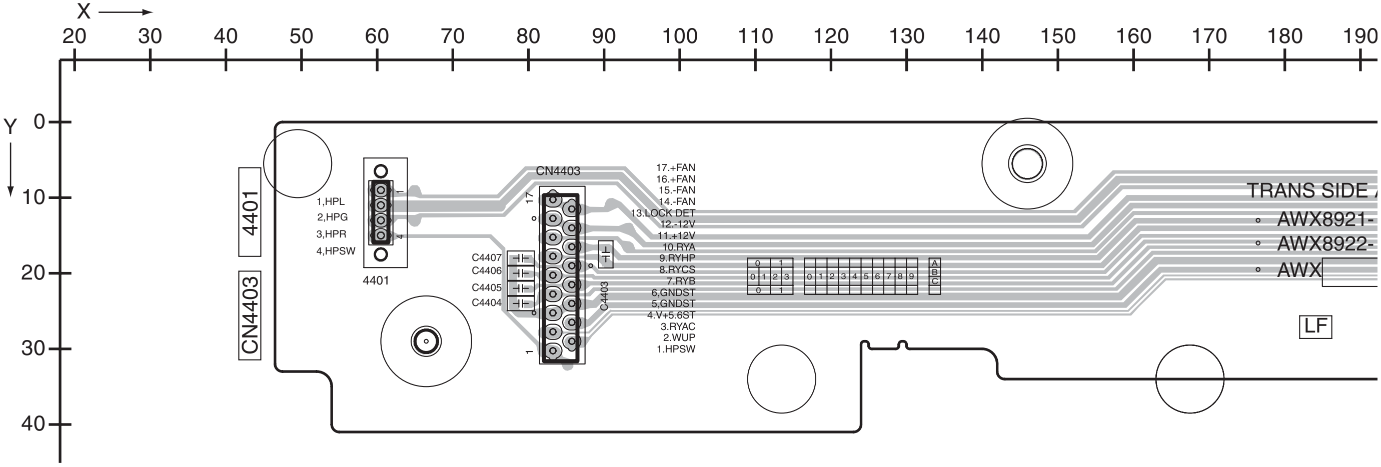
SIDE A

G TRANS SIDE ASSY


CN5705
P
CN3551
D
CN4403
4401
A
PNE-1B1
1.HPSW
2.WUP
3.RYAC
4.V+5.6ST
5.GNDST
6.GNDST
7.RYB
8.RYCS
9.RYHP
10.RYA
11.+12V
12.-12V
13.LOCK DET
14.-FAN
15.-FAN
16.+FAN
17.+FAN
4.HPSW
3.HPR
2.HPG
1.HPL
CN4403
4401
[[G]] C7
PRODUCTION CODE
ICT
FC
C
AWX8921-
AWX8
TRANS SIDE ASS'Y
Y
X
0
10
20
30
40
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190

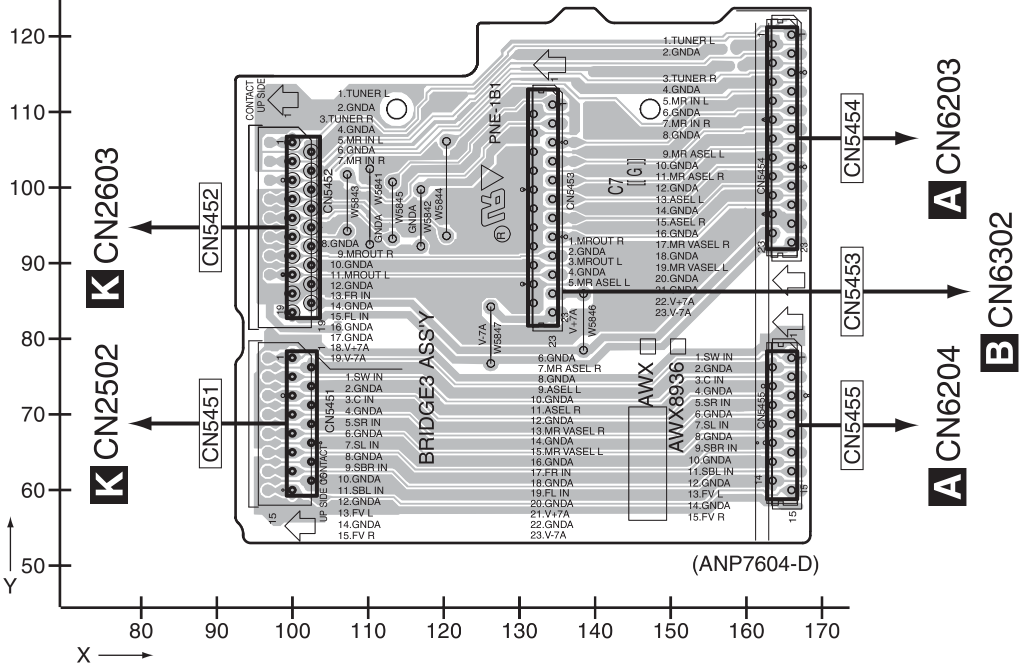
SIDE B

G TRANS SIDE ASSY


X
Y
4401
CN4403
1.HPL
2.HPG
3.HPR
4.HPSW
4401
CN4403
C4407
C4406
C4405
C4404
C4403
17.+FAN
16.+FAN
15.-FAN
14.-FAN
13.LOCK DET
12.-12V
11.+12V
10.RYA
9.RYHP
8.RYCS
7.RYB
6.GNDST
5.GNDST
4.V+5.6ST
3.RYAC
2.WUP
1.HPSW
TRANS SIDE
AWX8921-
AWX8922-
AWX
LF
0
10
20
30
40
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190

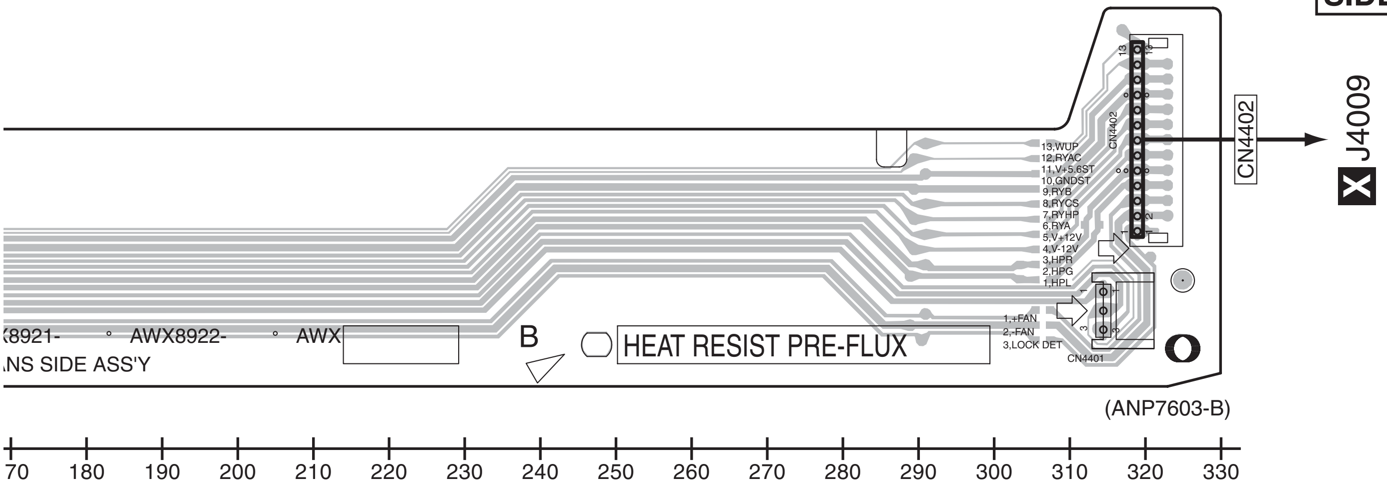
SIDE A

H BRIDGE3 ASSY

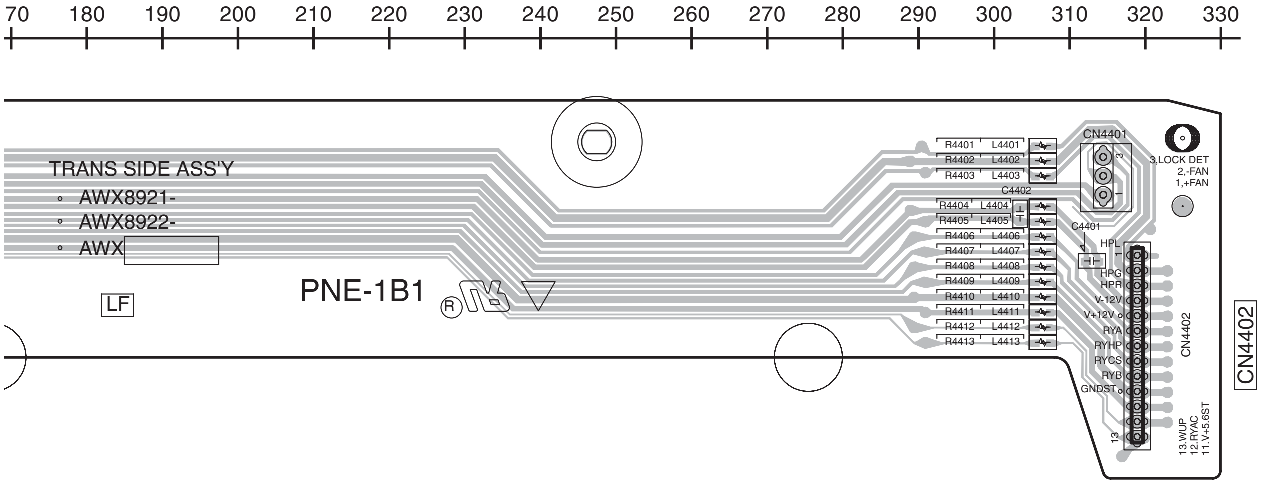

CN2603
K
CN5452
CN2502
K
CN5451
CN5454
CN6203
A
CN5453
CN6302
B
CN5455
CN6204
A
CONTACT UP SIDE
1.TUNER L
2.GNDA
3.TUNER R
4.GNDA
5.MR IN L
6.GNDA
7.MR IN R
8.GNDA
9.MROUT R
10.GNDA
11.MROUT L
12.GNDA
13.FR IN
14.GNDA
15.FL IN
16.GNDA
17.GNDA
18.V+7A
19.V-7A
W5843
W5841
W5845
W5842
W5844
PNE-1B1
C7
[[G]]
1.MROUT R
2.GNDA
3.MROUT L
4.GNDA
5.MR ASEL L
6.GNDA
7.MR ASEL R
8.GNDA
9.ASEL L
10.GNDA
11.ASEL R
12.GNDA
13.MR VASEL R
14.GNDA
15.MR VASEL L
16.GNDA
17.FR IN
18.GNDA
19.FL IN
20.GNDA
21.V+7A
22.GNDA
23.V-7A
V-7A
W5847
W5846
1.TUNER L
2.GNDA
3.TUNER R
4.GNDA
5.MR IN L
6.GNDA
7.MR IN R
8.GNDA
9.MR ASEL L
10.GNDA
11.MR ASEL R
12.GNDA
13.ASEL L
14.GNDA
15.ASEL R
16.GNDA
17.MR VASEL R
18.GNDA
19.MR VASEL L
20.GNDA
21.GNDA
22.V+7A
23.V-7A
1.SW IN
2.GNDA
3.C IN
4.GNDA
5.SR IN
6.GNDA
7.SL IN
8.GNDA
9.SBR IN
10.GNDA
11.SBL IN
12.GNDA
13.FV L
14.GNDA
15.FV R
UP SIDE CONTACT
BRIDGE3 ASS'Y
AWX
AWX8936
(ANP7604-D)
Y
X
50
60
70
80
90
100
110
120
80
90
100
110
120
130
140
150
160
170

G H

SIDE A

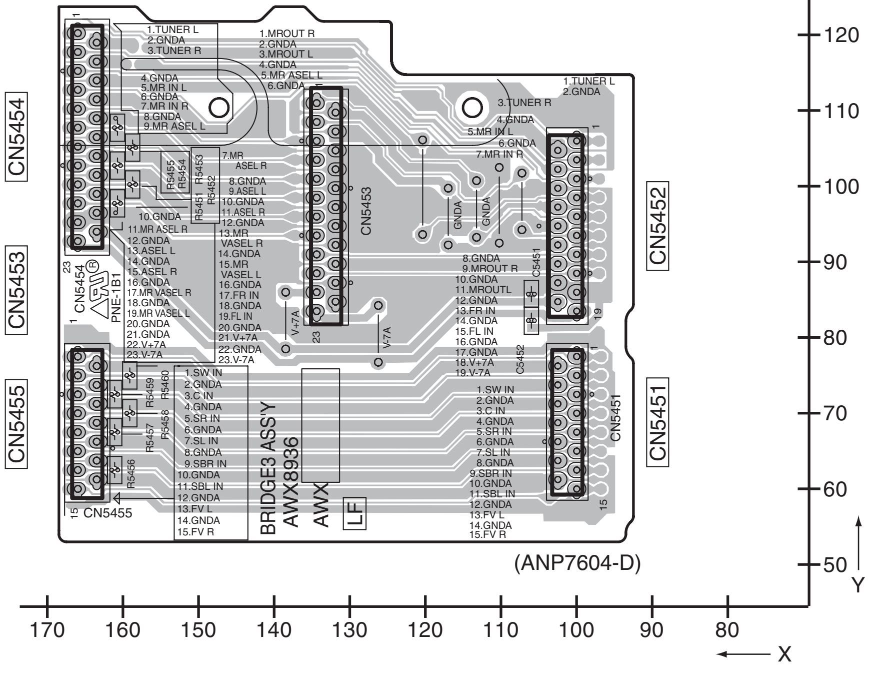

CN4402
X J4009
13.WUP
12.RYAC
11.V+5.6ST
10.GNDST
9.RYB
8.RYCS
7.RYHP
6.RYA
5.V+12V
4.V-12V
3.HPR
2.HPG
1.HPL
1.+FAN
2.-FAN
3.LOCK DET
CN4401
8921- ∘ AWX8922- ∘ AWX
NS SIDE ASS'Y
B
HEAT RESIST PRE-FLUX
(ANP7603-B)
70 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330

SIDE B


70 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330
TRANS SIDE ASS'Y
∘ AWX8921-
∘ AWX8922-
∘ AWX
LF
PNE-1B1
R4401 L4401
R4402 L4402
R4403 L4403
C4402
R4404 L4404
R4405 L4405
R4406 L4406
R4407 L4407
R4408 L4408
R4409 L4409
R4410 L4410
R4411 L4411
R4412 L4412
R4413 L4413
CN4401
3.LOCK DET
2.-FAN
1.+FAN
C4401
HPL
HPG
HPR
V-12V
V+12V
RYA
RYHP
RYCS
RYB
GNDST
13.WUP
12.RYAC
11.V+5.6ST
CN4402
(ANP7603-B)

H BRIDGE3 ASSY

SIDE B

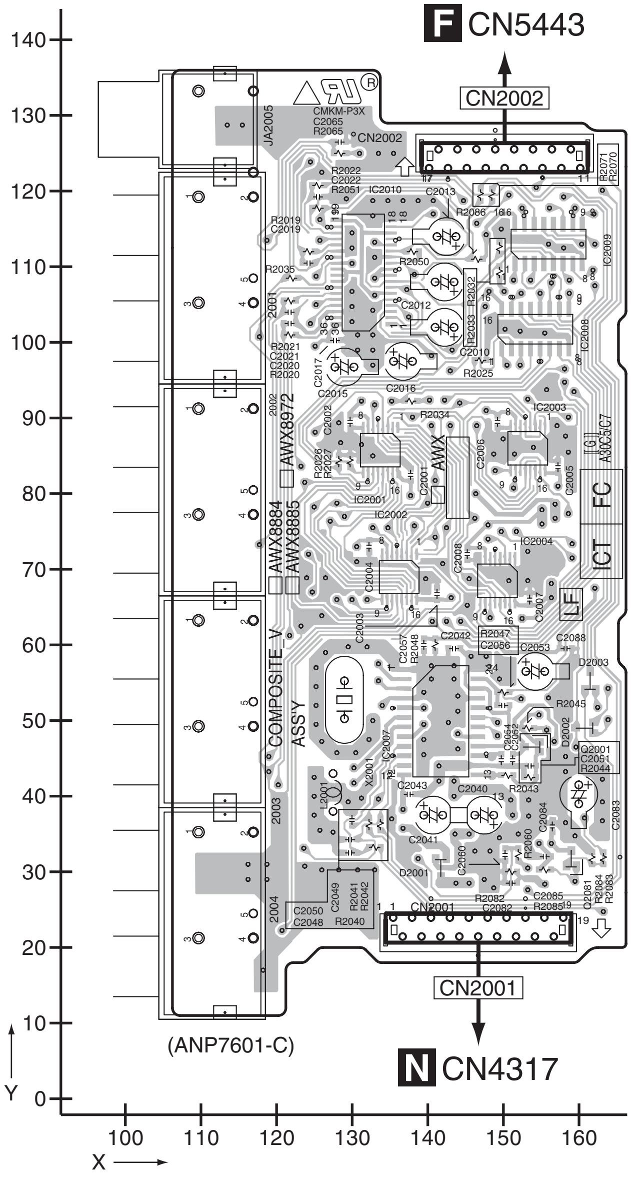

CN5454
CN5453
CN5455
CN5452
CN5451
1.TUNER L
2.GNDA
3.TUNER R
4.GNDA
5.MR IN L
6.GNDA
7.MR IN R
8.GNDA
9.MR ASEL L
10.GNDA
11.MR ASEL R
12.GNDA
13.ASEL L
14.GNDA
15.ASEL R
16.GNDA
17.MR VASEL R
18.GNDA
19.MR VASEL L
20.GNDA
21.GNDA
22.V+7A
23.V-7A
1.MROUT R
2.GNDA
3.MROUT L
4.GNDA
5.MR ASEL L
6.GNDA
7.MR ASEL R
8.GNDA
9.ASEL L
10.GNDA
11.ASEL R
12.GNDA
13.MR VASEL R
14.GNDA
15.MR VASEL L
16.GNDA
17.FR IN
18.GNDA
19.FL IN
20.GNDA
21.V+7A
22.GNDA
23.V-7A
1.TUNER L
2.GNDA
3.TUNER R
4.GNDA
5.MR IN L
6.GNDA
7.MR IN R
8.GNDA
9.MROUT R
10.GNDA
11.MROUTL
12.GNDA
13.FR IN
14.GNDA
15.FL IN
16.GNDA
17.GNDA
18.V+7A
19.V-7A
1.SW IN
2.GNDA
3.C IN
4.GNDA
5.SR IN
6.GNDA
7.SL IN
8.GNDA
9.SBR IN
10.GNDA
11.SBL IN
12.GNDA
13.FV L
14.GNDA
15.FV R
R5451 R5452 R5453 R5454 R5455
R5456 R5457 R5458 R5459 R5460
C5451 C5452
V+7A V-7A
PNE-1B1
BRIDGE3 ASS'Y
AWX8936
AWX
LF
(ANP7604-D)
120 110 100 90 80 70 60 50
Y
170 160 150 140 130 120 110 100 90 80
X

G H

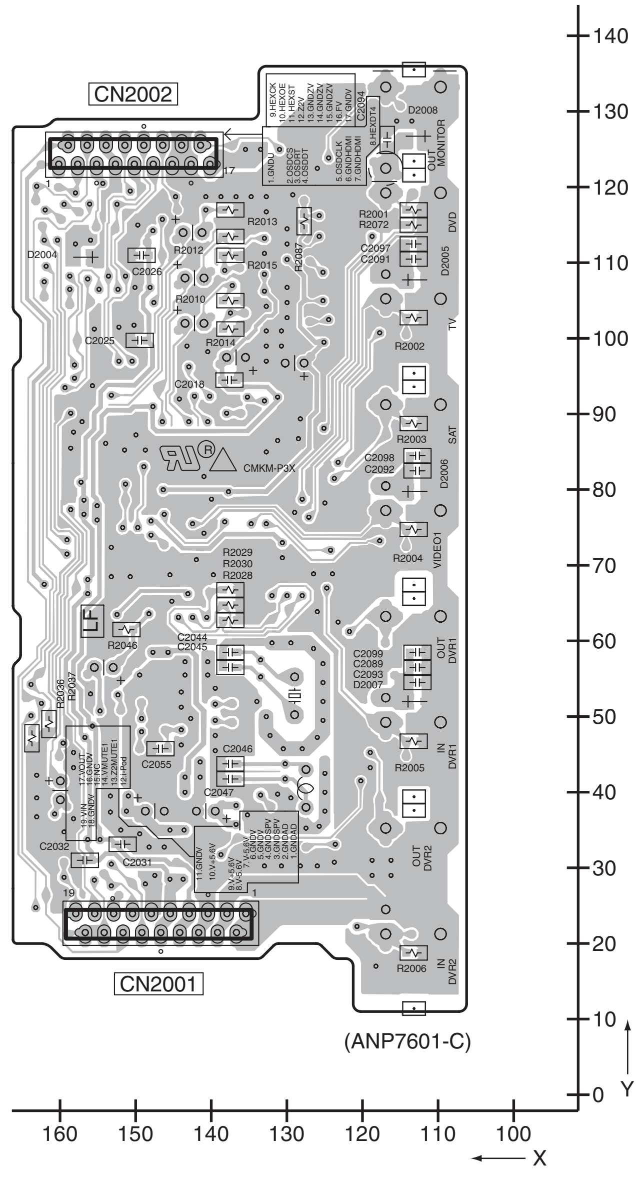
11.6 COMPOSITE V ASSY

SIDE A **SIDE B**

I COMPOSITE V ASSY

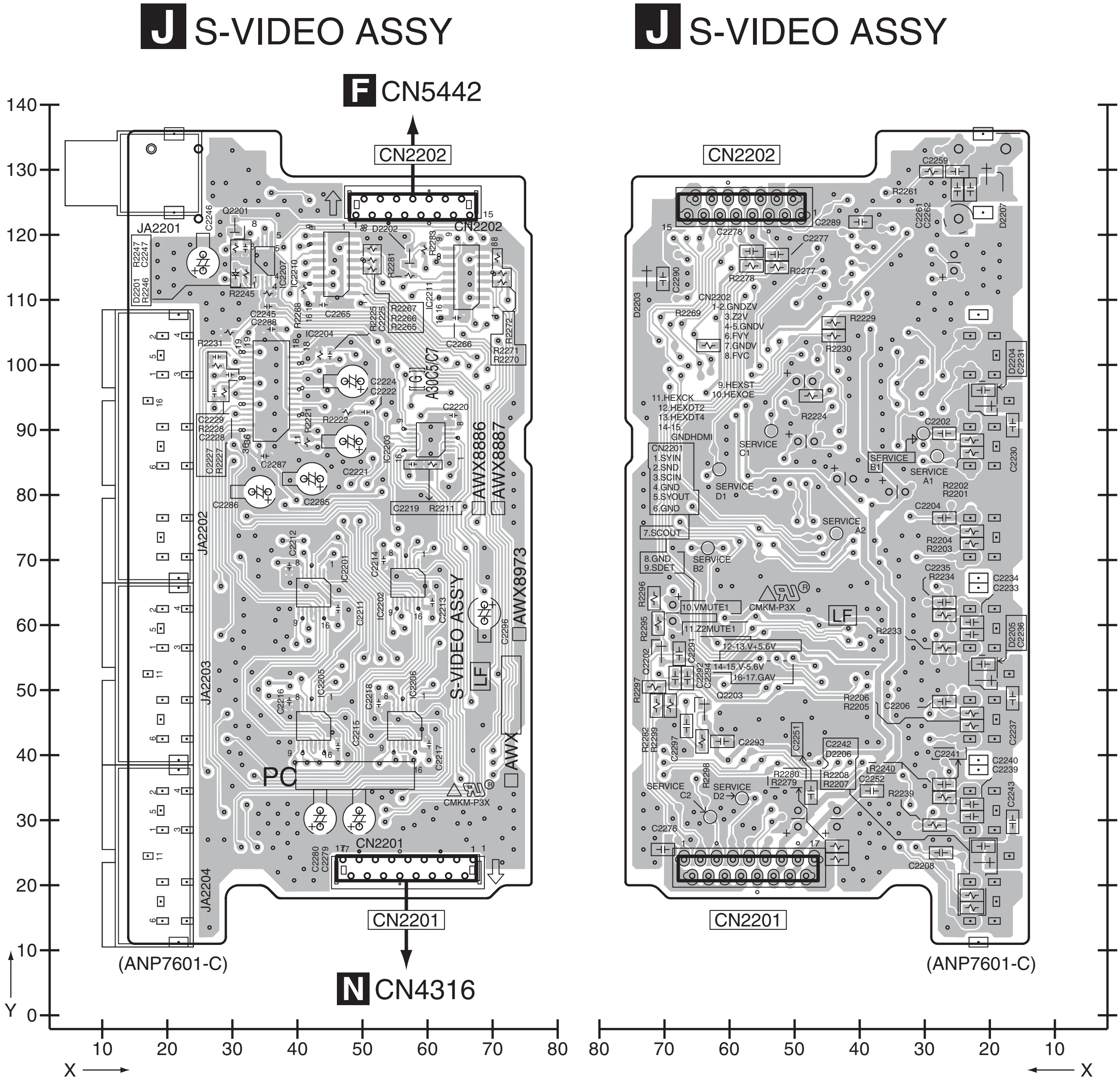

F CN5443
CN2002
CN2001
N CN4317
JA2005
CMKM-P3X
IC2001
IC2002
IC2003
IC2004
IC2007
IC2008
IC2009
IC2010
AWX8972
AWX8884
AWX8885
AWX
FC
ICT
LF
COMPOSITE V ASSY
A30C5/C7
X2001
D2001
D2002
D2003
Q2001
(ANP7601-C)
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
100
110
120
130
140
150
160
X

I COMPOSITE V ASSY


CN2002
CN2001
CMKM-P3X
LF
D2004
D2005
D2006
D2007
D2008
OUT MONITOR
DVD
TV
SAT
VIDEO1
OUT DVR1
IN DVR1
OUT DVR2
IN DVR2
(ANP7601-C)
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
160
150
140
130
120
110
100
X

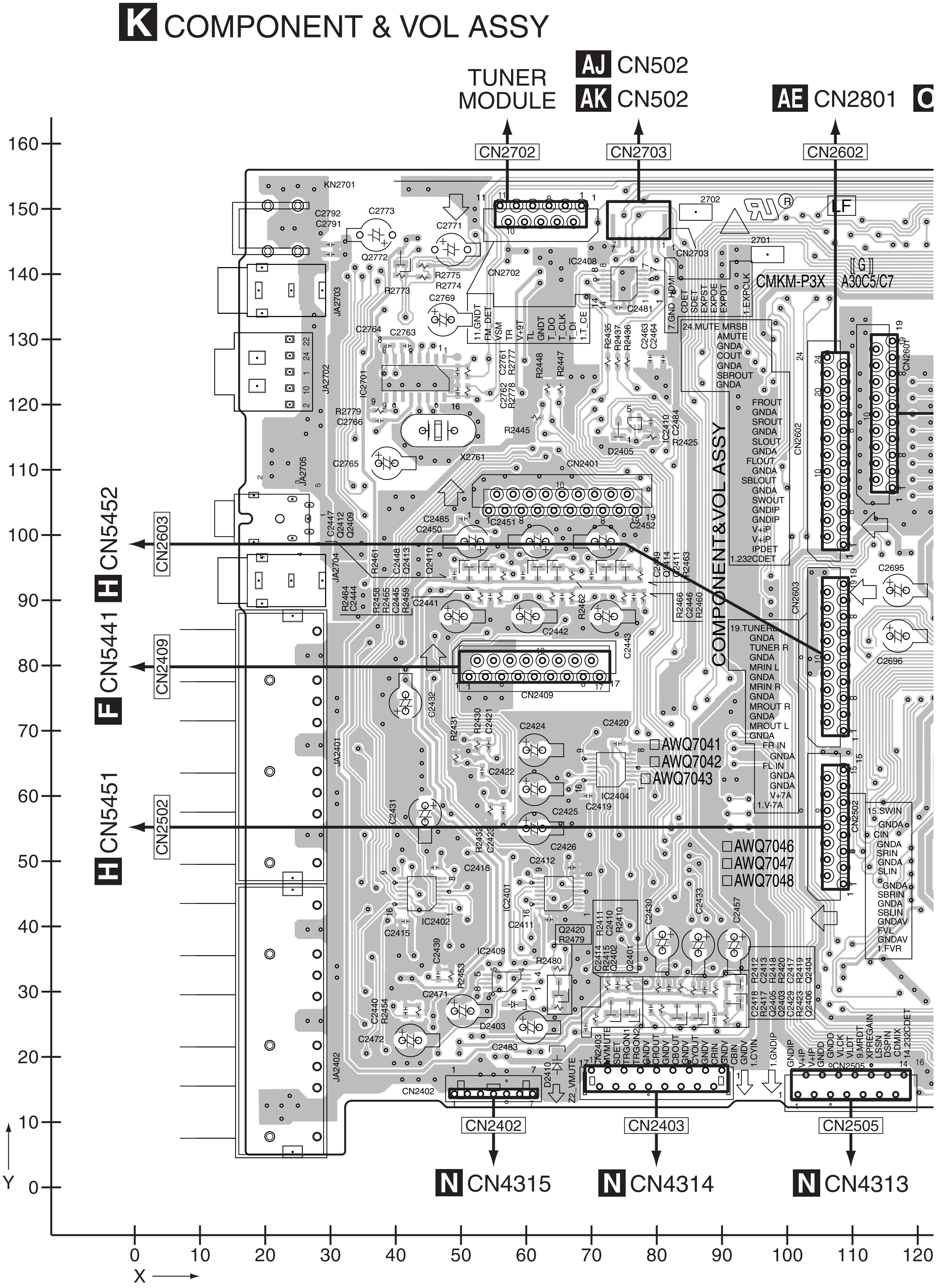
11.7 S-VIDEO ASSY

SIDE A **SIDE B**


J S-VIDEO ASSY
J S-VIDEO ASSY
F CN5442
CN2202
CN2201
N CN4316
JA2201
JA2202
JA2203
JA2204
IC2201
IC2202
IC2203
IC2204
Q2201
Q2203
AWX8886
AWX8887
AWX8973
S-VIDEO ASSY
LF
PC
CMKM-P3X
(ANP7601-C)
(ANP7601-C)
CN2202
1-2.GNDZV
3.Z2V
4-5.GNDV
6.FVY
7.GNDV
8.FVC
9.HEXST
10.HEXOE
11.HEXCK
12.HEXDT2
13.HEXDT4
14-15.GNDHDMI
CN2201
1.SYIN
2.SND
3.SCIN
4.GND
5.SYOUT
6.GND
7.SCOUT
8.GND
9.SDET
10.VMUTE1
11.Z2MUTE1
12-13.V+5.6V
14-15.V-5.6V
16-17.GAV
SERVICE A1
SERVICE A2
SERVICE B1
SERVICE B2
SERVICE C1
SERVICE C2
SERVICE D1
SERVICE D2
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
10 20 30 40 50 60 70 80
80 70 60 50 40 30 20 10
X

11.8 COMPONENT & VOL ASSY

SIDE A


K COMPONENT & VOL ASSY
TUNER MODULE
AJ CN502
AK CN502
AE CN2801
CN2702
CN2703
CN2602
H CN5452
CN2603
F CN5441
CN2409
H CN5451
CN2502
CN2402
CN2403
CN2505
N CN4315
N CN4314
N CN4313
COMPONENT&VOL ASSY
CMKM-P3X
[[G]] A30C5/C7
LF
☐AWQ7041
☐AWQ7042
☐AWQ7043
☐AWQ7046
☐AWQ7047
☐AWQ7048
KN2701
JA2703
JA2702
JA2705
JA2704
JA2401
JA2402
IC2408
IC2701
IC2410
IC2404
IC2401
IC2402
IC2409
X2761
CN2401
CN2409
CN2602
CN2601
CN2603
CN2502
24.MUTE MRSB
AMUTE
GNDA
COUT
GNDA
SBROUT
GNDA
FROUT
GNDA
SROUT
GNDA
SLOUT
GNDA
FLOUT
GNDA
SBLOUT
GNDA
SWOUT
GNDIP
GNDIP
V+IP
V+IP
IPDET
1.232CDET
19.TUNERL
GNDA
TUNER R
GNDA
MRIN L
GNDA
MRIN R
GNDA
MROUT R
GNDA
MROUT L
GNDA
FR IN
GNDA
FL IN
GNDA
GNDA
V+7A
1.V-7A
15.SWIN
GNDA
CIN
GNDA
SRIN
GNDA
SLIN
GNDA
SBRIN
GNDA
SBLIN
GNDAV
FVL
GNDAV
1.FVR
11.GNDT
FM_DET
VSM
TR
V+9T
TL
GNDT
T_DO
T_CLK
T_DI
1.T_CE
7.GND_HDMI
CDET
SDET
EXPST
EXPOE
EXPDT
1.EXPCLK
CN2403
VMUTE
SDET
TRGON1
TRGON2
GNDV
CROUT
GNDV
CBOUT
GNDV
CYOUT
GNDV
CRIN
GNDV
CBIN
GNDV
1.CYIN
1.GNDIP
GNDIP
V+IP
V+IP
GNDD
GNDD
VLCK
VLDT
9.MRDT
XPREGAIN
LSSN
CSSN
CDMIX
14.232CDET
CN2505
Z2_VMUTE
D2410
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y 0
0
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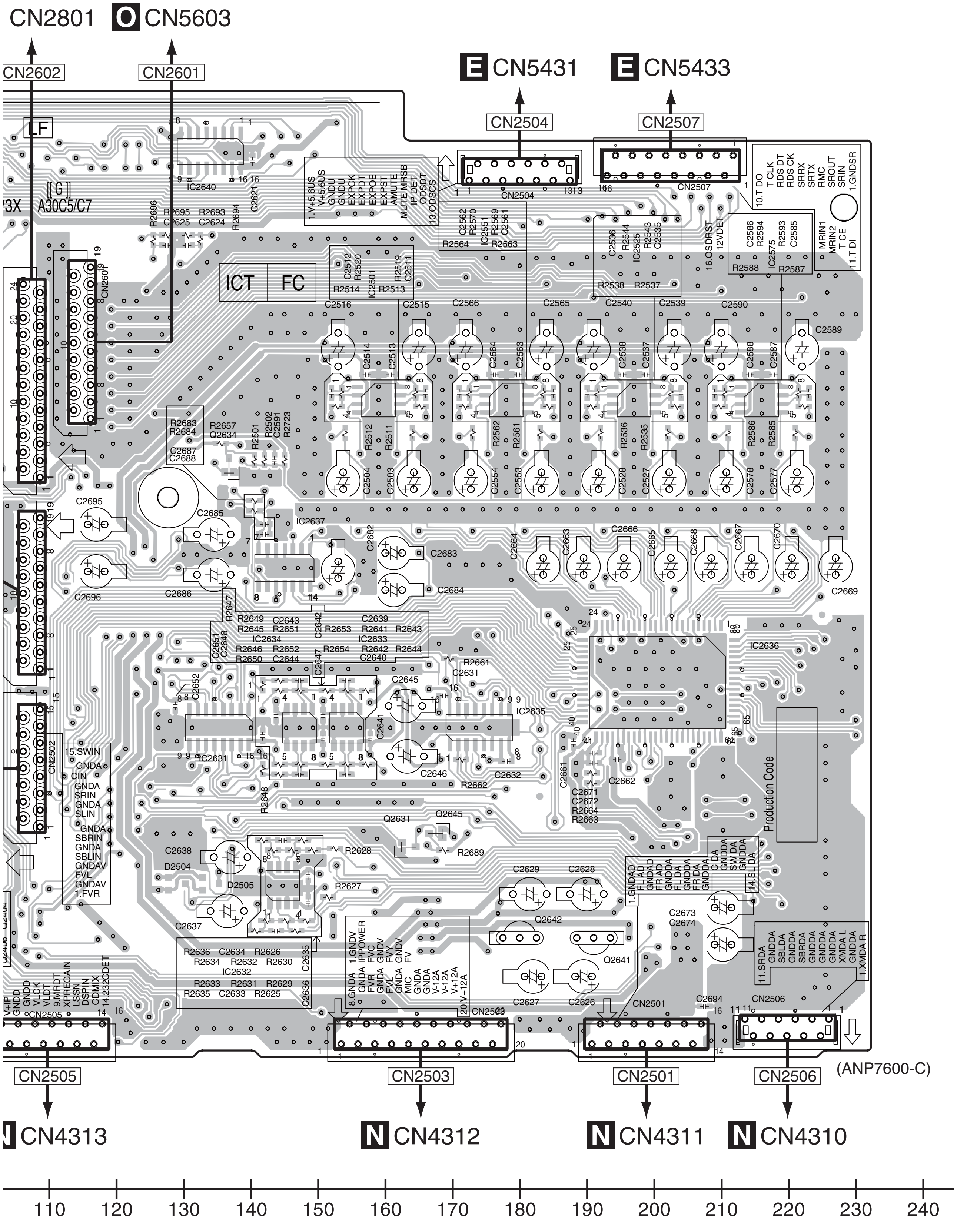
30
40
50
60
70
80
90
100
110
120
X

SIDE A


CN2801
O CN5603
CN2602
CN2601
E CN5431
E CN5433
CN2504
CN2507
LF
[[G]]
A30C5/C7
ICT
FC
IC2640
IC2501
IC2525
IC2551
IC2575
IC2637
IC2634
IC2633
IC2636
IC2635
IC2631
IC2632
CN2502
15.SWIN
GNDA
CIN
GNDA
SRIN
GNDA
SLIN
GNDA
SBRIN
GNDA
SBLIN
GNDAV
FVL
GNDAV
1.FVR
1.V+5.6US
V+5.6US
GNDU
GNDU
EXPCK
EXPDT
EXPOE
EXPST
AMUTE
MUTE MRSB
IP DET
ODSDT
13.ODSCS
10.T DO
T CLK
RDS DT
RDS CK
SRRX
SRTX
RMC
SROUT
SRIN
1.GNDSR
16.OSDRST
12VDET
MRIN1
MRIN2
T CE
11.T DI
Production Code
1.GNDAD
FL AD
GNDAD
FR AD
GNDDA
FL DA
GNDDA
FR DA
GNDDA
C DA
GNDDA
SW DA
GNDDA
14.SL DA
11.SRDA
GNDDA
SBLDA
GNDDA
SBRDA
GNDDA
GNDDA
XMDA L
GNDDA
1.XMDA R
8.GNDA
GNDA
FWR
FVR
FVL
GNDA
MIC
GNDA
V-12A
V-12A
V+12A
1.GNDV
IPPOWER
FVC
GNDV
FVV
GNDV
FV
20.V+12A
V+IP
GNDD
VLCK
VLDT
9.MRDT
XPREGAIN
LSSN
DSPIN
CDMIX
14.232CDET
CN2505
CN2503
CN2501
CN2506
(ANP7600-C)
N CN4313
N CN4312
N CN4311
N CN4310
110
120
130
140
150
160
170
180
190
200
210
220
230
240

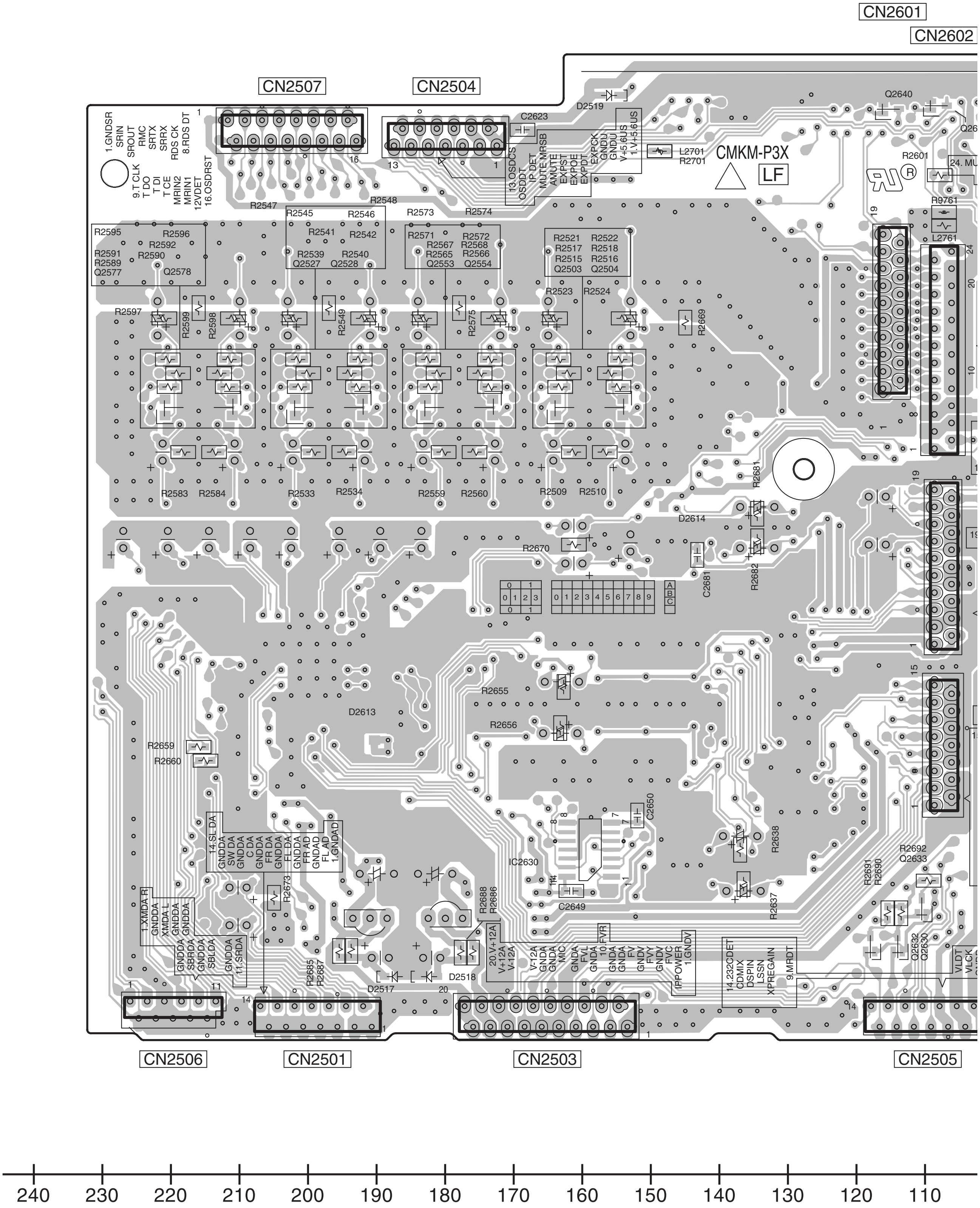
A
B
C
D
E
F

K

SIDE B

A

K COMPONENT & VOL ASSY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CN2507
CN2504
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SRIN
SROUT
RMC
SRTX
SRRX
RDS CK
8.RDS DT
9.T CLK
T DO
T DI
T CE
MRIN2
MRIN1
12VDET
16.OSDRST
13.OSDCS
OSDDT
IP DET
MUTE MRSB
AMUTE
EXPST
EXPOE
EXPDT
EXPCK
GNDU
GNDU
V+5.6US
1.V+5.6US
C2623
D2519
L2701
R2701
CMKM-P3X
LF
Q2640
R2601
24. MU
R9761
L2761
R2547
R2548
R2545
R2546
R2573
R2574
R2595
R2596
R2592
R2591
R2589
R2590
Q2577
Q2578
R2541
R2542
R2539
R2540
Q2527
Q2528
R2571
R2572
R2567
R2568
R2565
R2566
Q2553
Q2554
R2521
R2522
R2517
R2518
R2515
R2516
Q2503
Q2504
R2523
R2524
R2597
R2599
R2598
R2549
R2575
R2669
R2583
R2584
R2533
R2534
R2559
R2560
R2509
R2510
R2681
D2614
R2670
R2682
C2681
R2655
D2613
R2656
R2659
R2660
C2650
IC2630
R2638
R2692
Q2633
R2691
R2690
C2649
R2637
14.SL DA
GNDDA
SW DA
GNDDA
C DA
GNDDA
FR DA
GNDDA
FL DA
GNDDA
FR AD
GNDAD
FL AD
1.GNDAD
R2673
1.XMDA R
GNDDA
XMDA L
GNDDA
GNDDA
SBRDA
GNDDA
SBLDA
GNDDA
11.SRDA
R2685
R2687
D2517
R2688
R2686
D2518
20.V+12A
V+12A
V-12A
V-12A
GNDA
GNDA
MIC
GNDA
FVL
GNDA
10.FVR
GNDA
FV
GNDV
FVY
GNDV
FVC
IPPOWER
1.GNDV
14.232CDET
CDMIX
DSPIN
LSSN
XPREGAIN
9.MRDT
Q2632
Q2630
VLDT
VLCK
CN2506
CN2501
CN2503
CN2505
240
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130
120
110

B

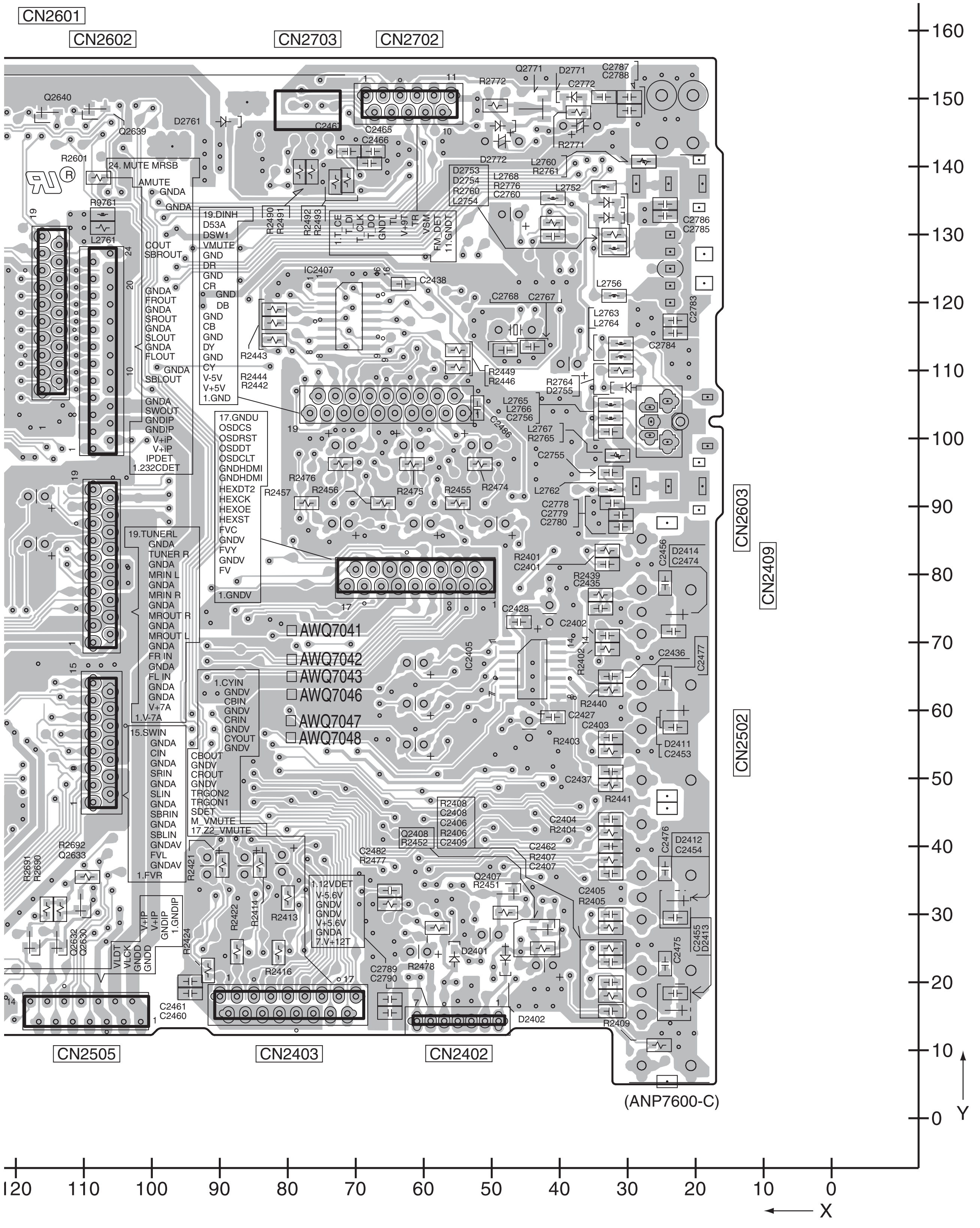
C

D

E

F

SIDE B

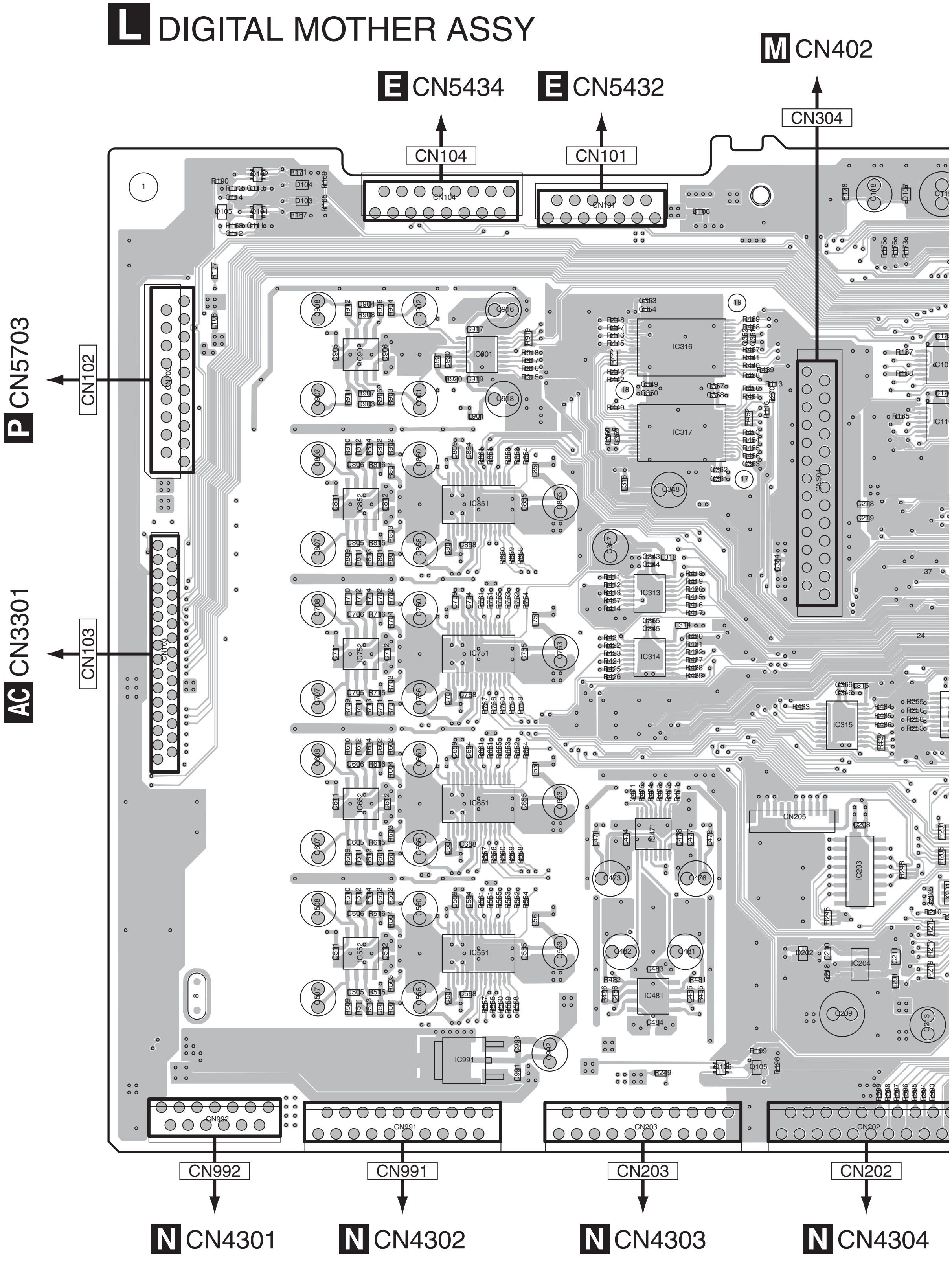

CN2601
CN2602
CN2703
CN2702
CN2505
CN2403
CN2402
CN2603
CN2409
CN2502
(ANP7600-C)
☐AWQ7041
☐AWQ7042
☐AWQ7043
☐AWQ7046
☐AWQ7047
☐AWQ7048
IC2405
IC2407
Q2640
Q2639
Q2771
D2761
D2771
D2772
R2601
R9761
L2761
24. MUTE MRSB
AMUTE
GNDA
COUT
SBROUT
FROUT
SROUT
SLOUT
FLOUT
SBLOUT
SWOUT
GNDIP
V+iP
IPDET
1.232CDET
19.DINH
D53A
DSW1
VMUTE
GND
DR
CR
DB
CB
DY
CY
V-5V
V+5V
1.GND
1.T_CE
T_DI
T_CLK
T_DO
GNDT
TL
V+9T
TR
VSM
FM_DET
11.GNDT
17.GNDU
OSDCS
OSDRST
OSDDT
OSDCLT
GNDHDMI
HEXDT2
HEXCK
HEXOE
HEXST
FVC
GNDV
FVY
FV
1.GNDV
19.TUNERL
TUNER R
MRIN L
MRIN R
MROUT R
MROUT L
FR IN
FL IN
V+7A
1.V-7A
15.SWIN
CIN
SRIN
SLIN
SBRIN
SBLIN
GNDAV
FVL
1.FVR
1.CYIN
CBIN
CRIN
CYOUT
CBOUT
CROUT
TRGON2
TRGON1
SDET
M_VMUTE
17.Z2_VMUTE
1.12VDET
V-5.6V
V+5.6V
7.V+12T
VLDT
VLCK
GNDD
1.GNDIP
D2402
R2409
X
Y
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
120
110
100
90
80
70
60
50
40
30
20
10
0

11.9 DIGITAL MOTHER ASSY

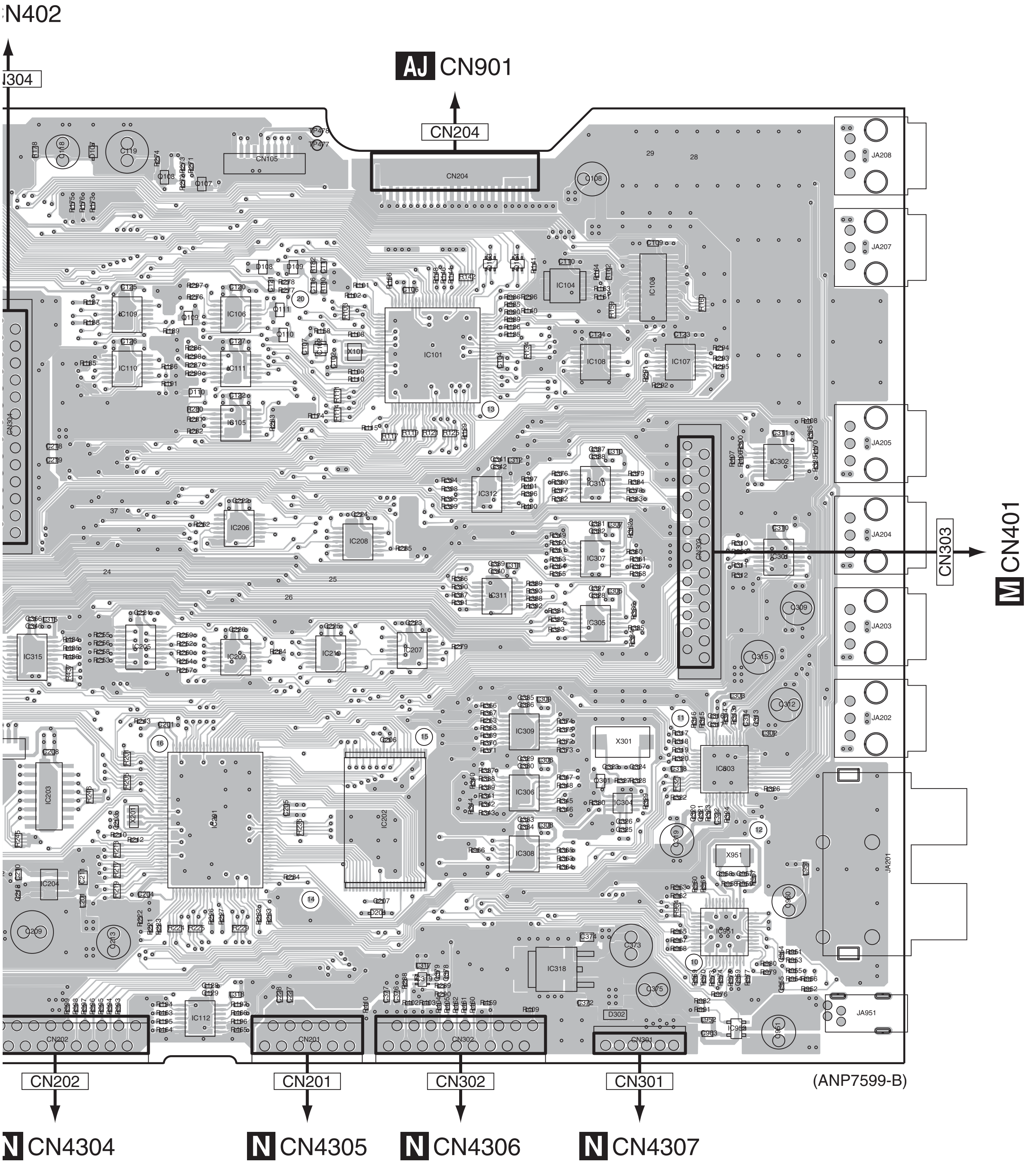
SIDE A

IC Q

Q102
Q101
Q108
Q107
Q103 Q104
IC104 IC103
IC316
IC902 IC901
IC109 IC106
Q111
Q109
Q110
IC102
IC101
IC108 IC107
IC110 IC111
IC317
IC105
IC852 IC851
IC302
IC310
IC312
IC313 IC206
IC208
IC307 IC301
IC752 IC314 IC751
IC311
IC305
IC205 IC207
IC315 IC209 IC210
IC652 IC651 IC309
IC471
IC303
Q301
IC203 IC306
IC304
IC201 IC202
IC308
IC552 IC551
IC204
IC481
IC951
IC991 IC318
IC319
Q106 Q105
IC112
IC952


L DIGITAL MOTHER ASSY
M CN402
E CN5434
E CN5432
CN304
CN104
CN101
P CN5703
CN102
AC CN3301
CN103
CN992
CN991
CN203
CN202
N CN4301
N CN4302
N CN4303
N CN4304
IC901
IC316
IC317
IC851
IC313
IC751
IC314
IC315
IC651
IC471
IC203
IC551
IC481
IC204
IC991
CN205

SIDE A


N402
N304
AJ CN901
CN204
CN105
CN204
JA208
JA207
JA205
JA204
JA203
JA202
JA201
JA951
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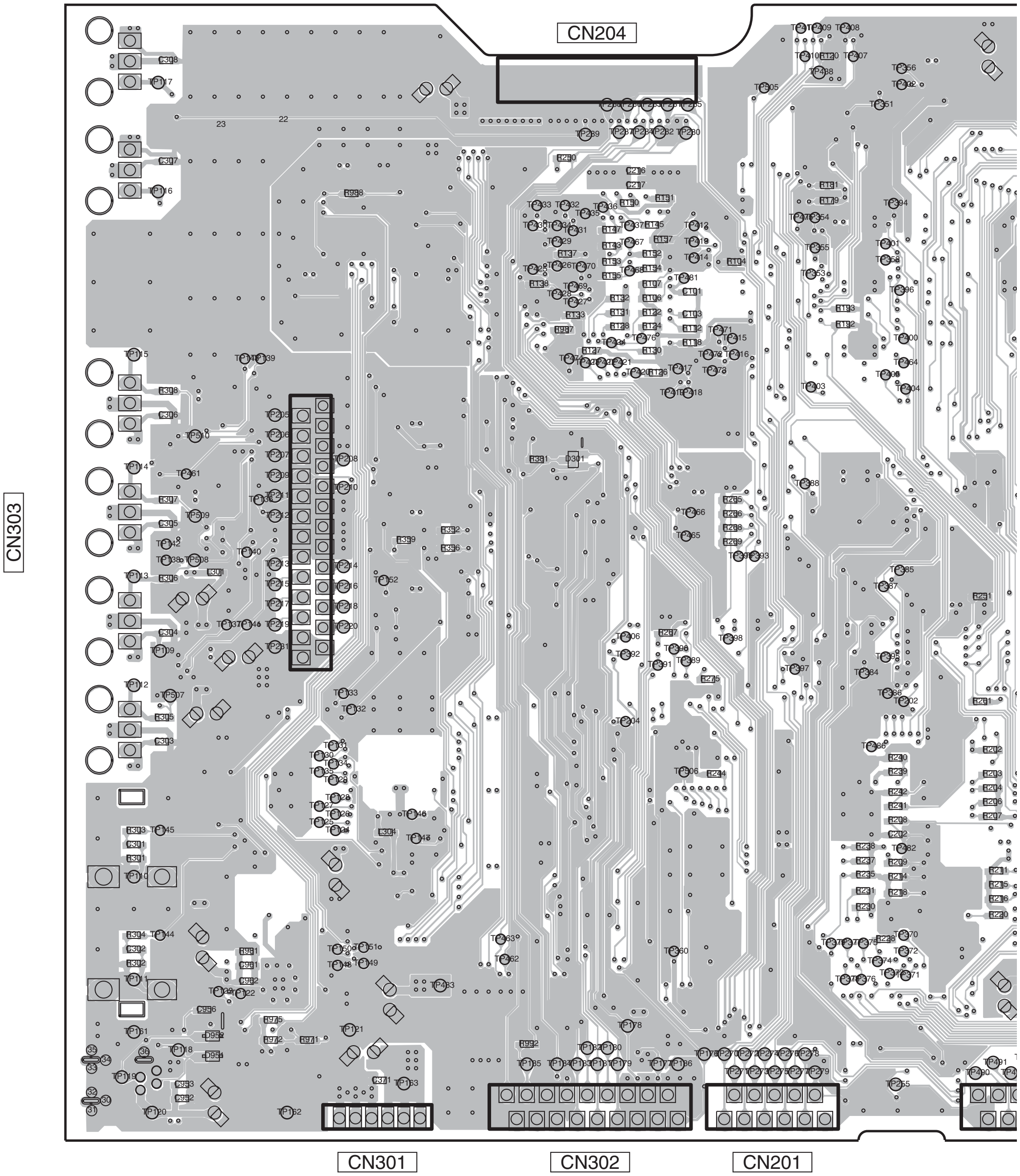
IC104
IC105
IC106
IC107
IC108
IC109
IC110
IC111
IC112
IC201
IC202
IC203
IC204
IC205
IC206
IC207
IC208
IC209
IC210
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC308
IC309
IC310
IC311
IC312
IC315
IC318
IC951
IC952
X101
X201
X301
X951
CN303
M CN401
CN202
CN201
CN302
CN301
(ANP7599-B)
CN202
CN201
CN302
CN301
N CN4304
N CN4305
N CN4306
N CN4307

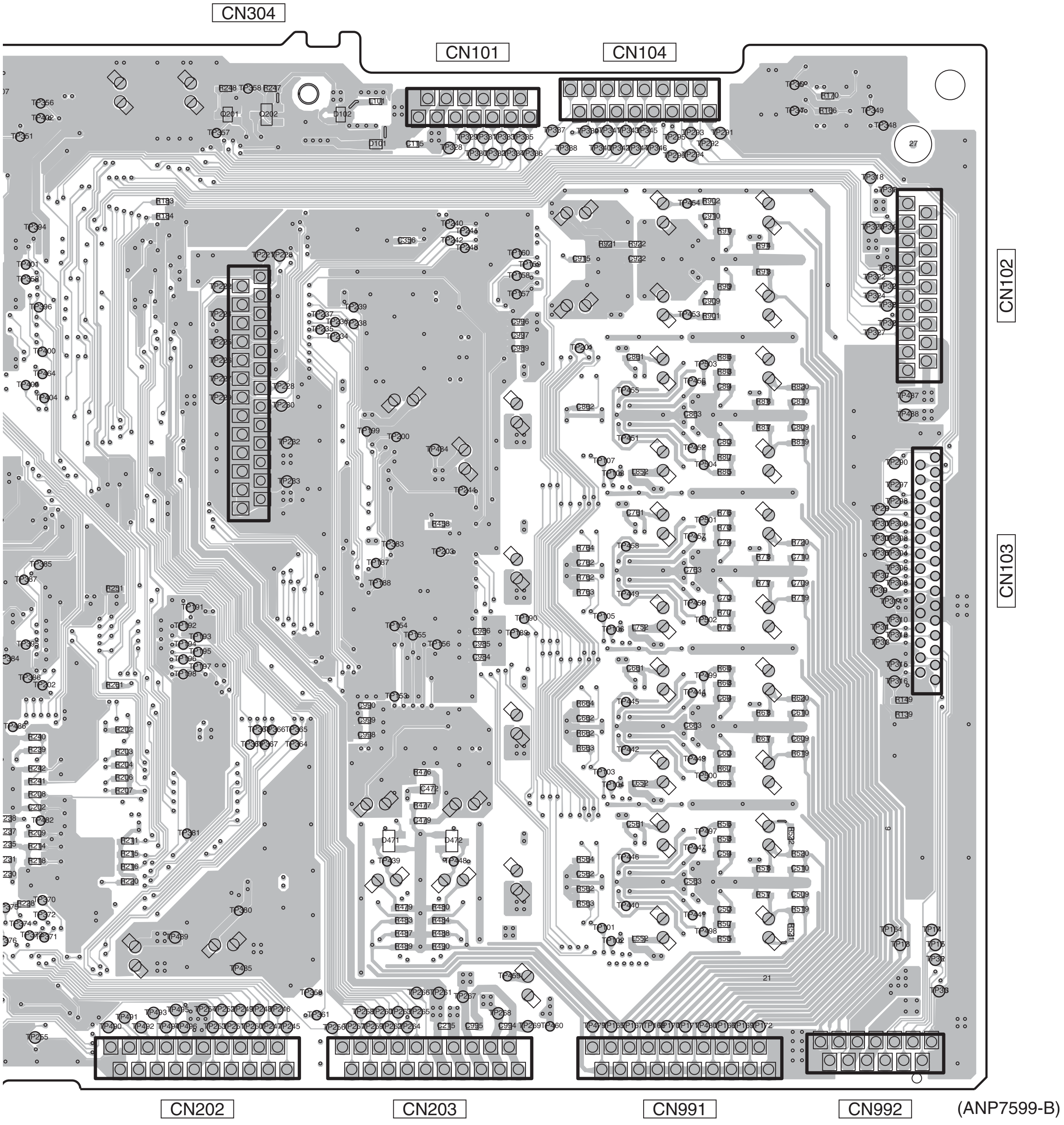
SIDE B

L DIGITAL MOTHER ASSY

IC	Q
	Q201 Q202


CN204
CN303
CN301
CN302
CN201

SIDE B

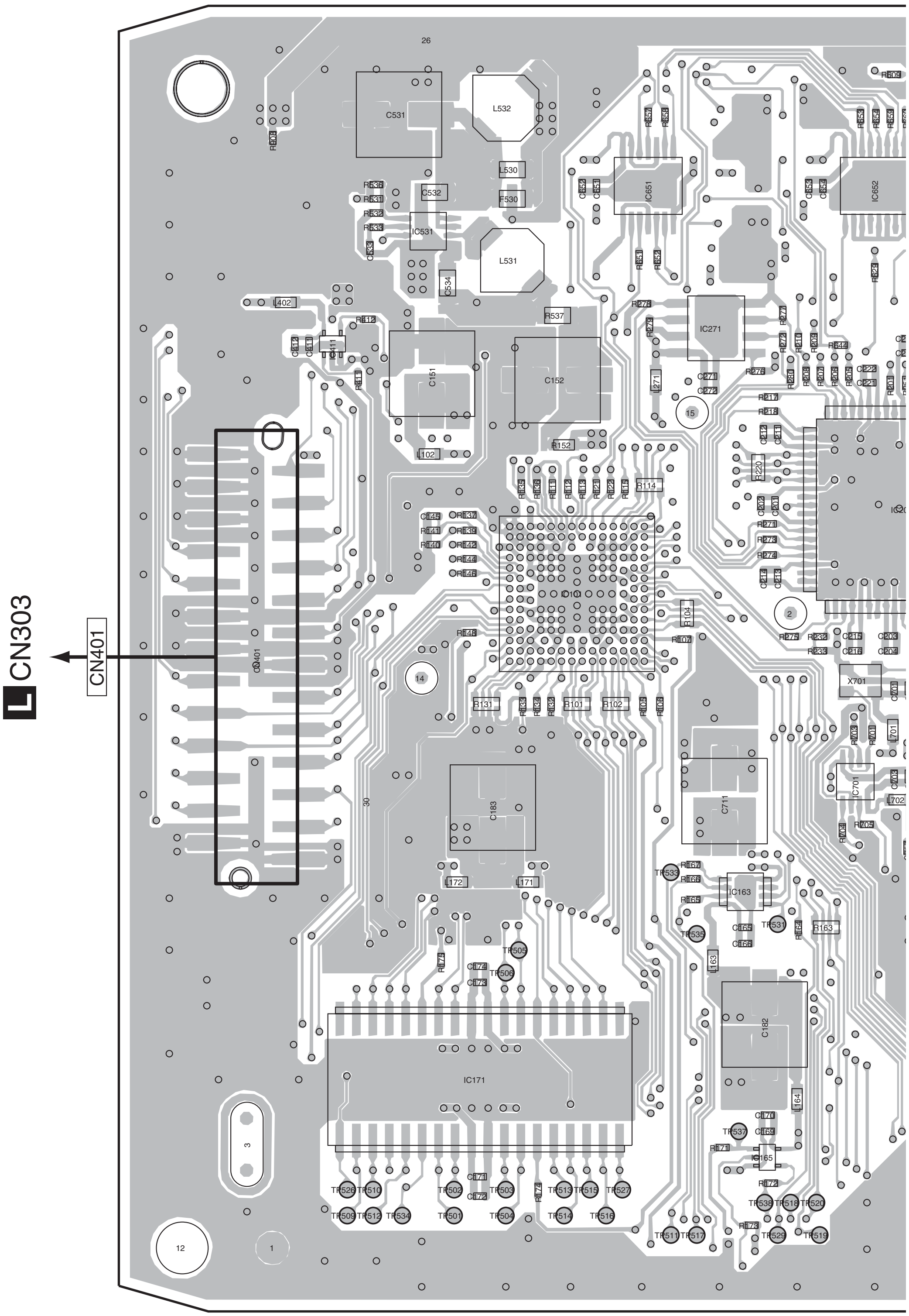

CN304
CN101
CN104
CN102
CN103
CN202
CN203
CN991
CN992
(ANP7599-B)

11.10 DSP ASSY

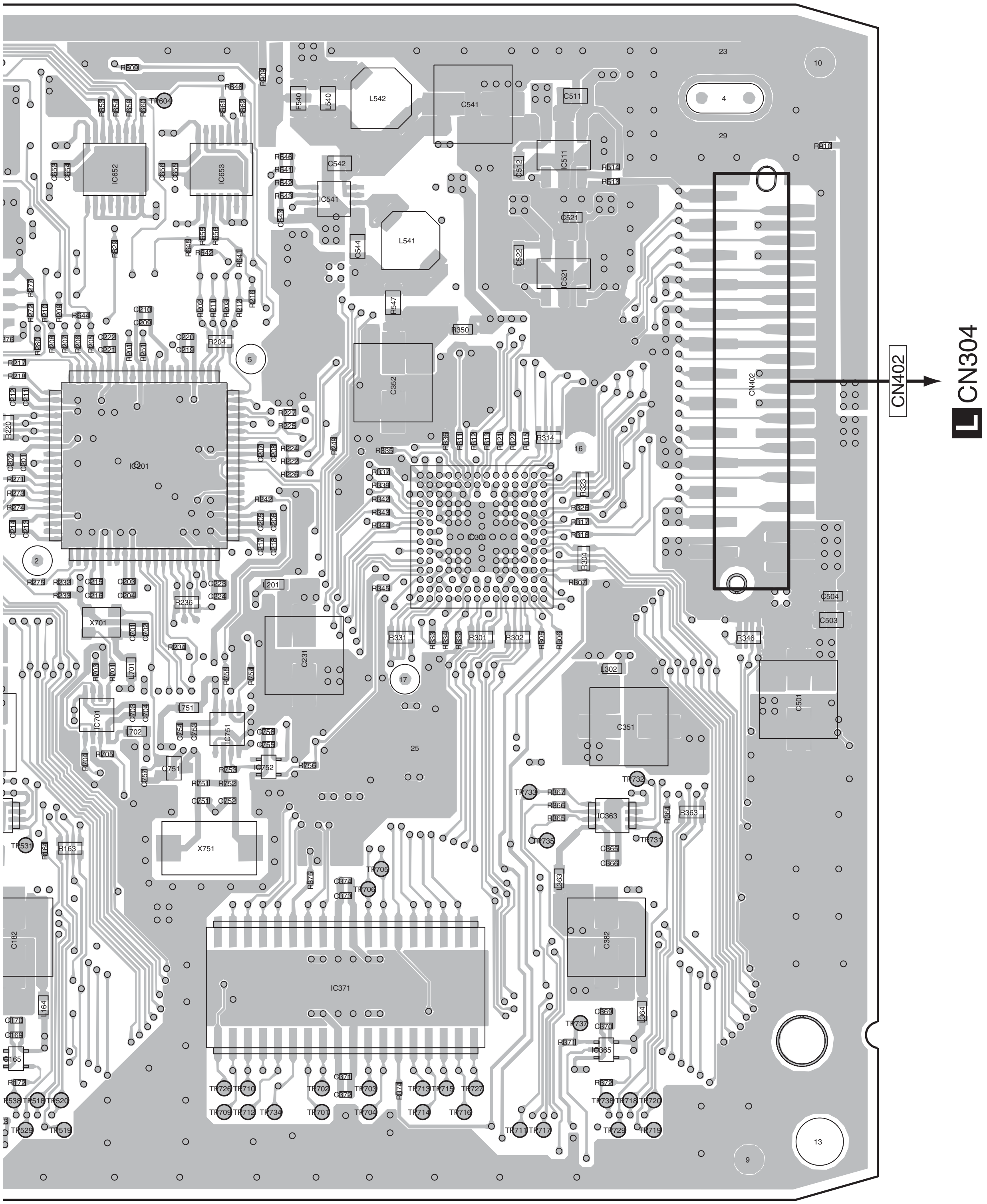
SIDE A

IC
Q
IC511
IC651 IC652 IC653
IC541
IC531
IC521
IC271
IC411
IC201
IC301
IC101
IC701
IC751
IC752 Q751
IC163 IC363
IC171 IC371
IC365
IC165

M DSP ASSY


L CN303
CN401
C531
L532
L530
F530
L531
C532
IC531
C534
L402
IC411
R537
C151
C152
IC651
IC652
IC271
R114
R152
L102
IC101
CN401
R131
R101
R102
R104
X701
IC701
L701
L702
C183
C711
L172
L171
IC163
R163
C182
IC171
IC165
TP505
TP506
TP533
TP535
TP531
TP537
TP526
TP510
TP502
TP503
TP513
TP515
TP527
TP509
TP512
TP534
TP501
TP504
TP514
TP516
TP511
TP517
TP538
TP518
TP520
TP529
TP519
12
1
3
14
15
2
26
30

SIDE A


CN402
L CN304
CN402
IC201
IC301
IC371
IC652
IC653
IC541
IC511
IC521
IC363
IC365
IC701
IC751
IC752
L541
L542
C541
C352
C231
C351
C382
C501
C182
X701
X751
R204
R236
R301
R302
R314
R331
R346
R350
R363
L201
L302
L701
L702
L751
TR604
TR531
TR705
TR706
TR731
TR732
TR733
TR735
TR737
ANP7611-A
23
10
4
29
5
2
16
17
25
13
9

(ANP7611-A)

SIDE B

A

M DSP ASSY

IC Q

IC603 IC601
IC602
IC581

B

IC571

IC623 IC621
IC622

C

IC401

Q201

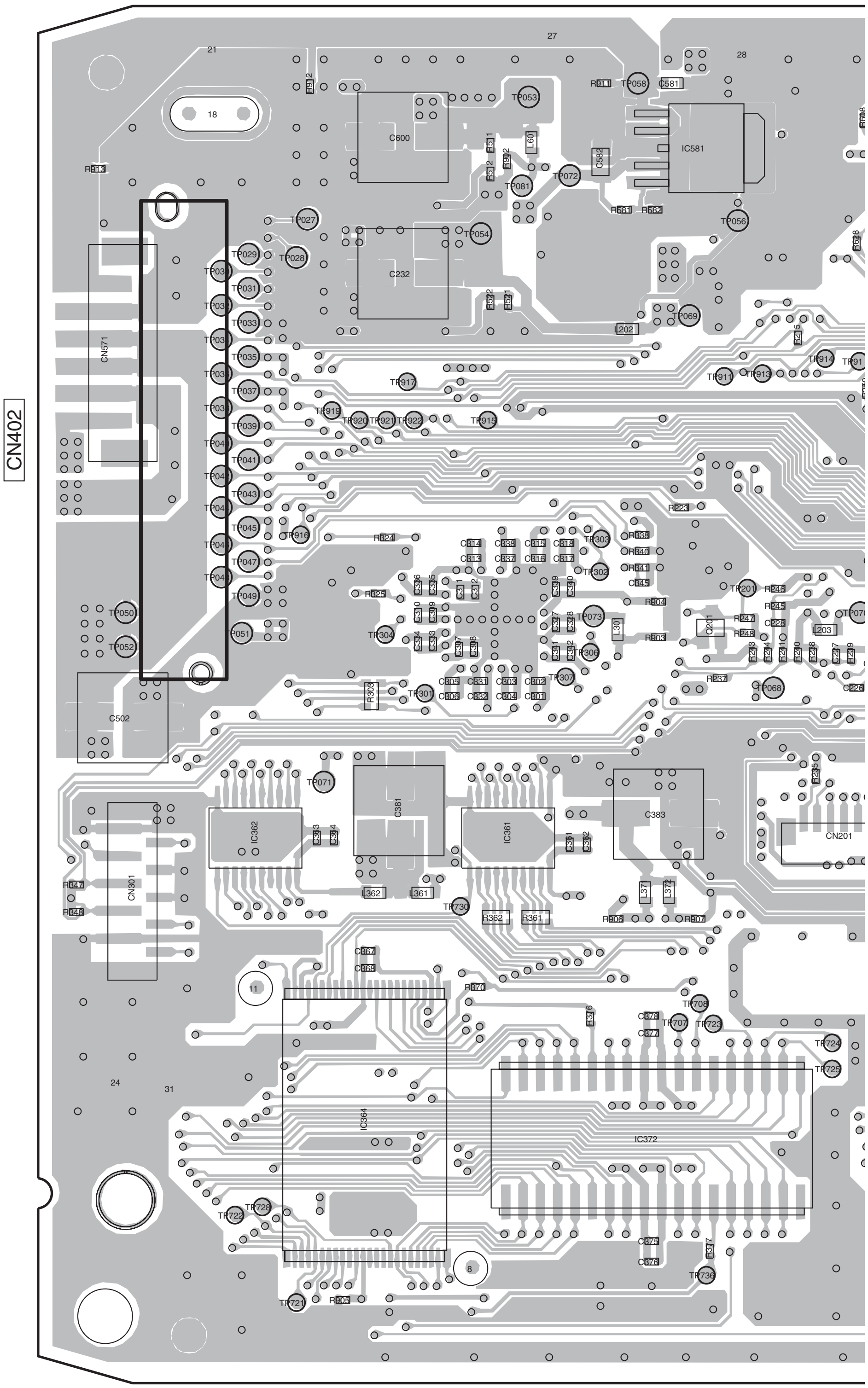
D

IC362 IC361 IC162
IC161

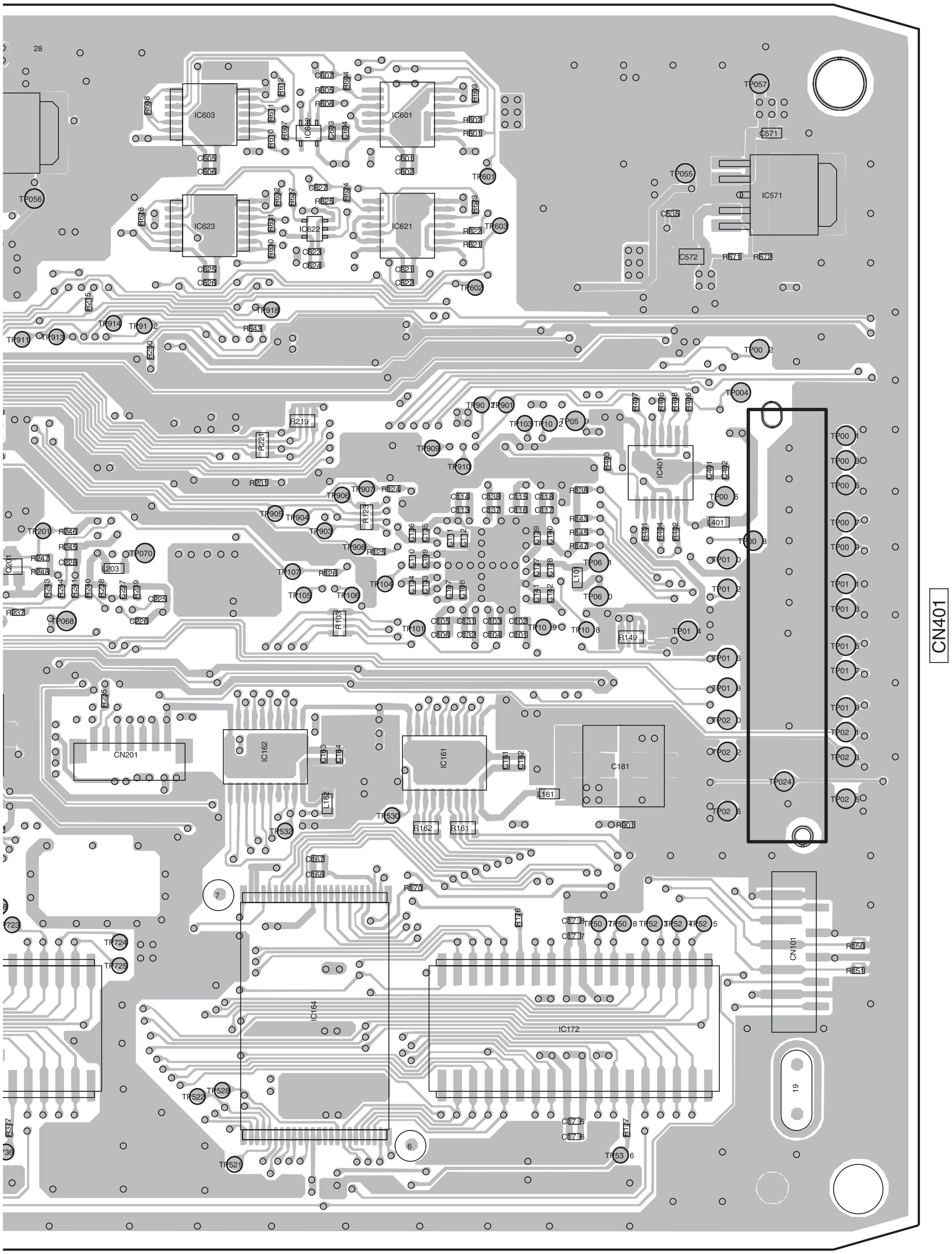
E

IC364 IC164
IC372 IC172

F

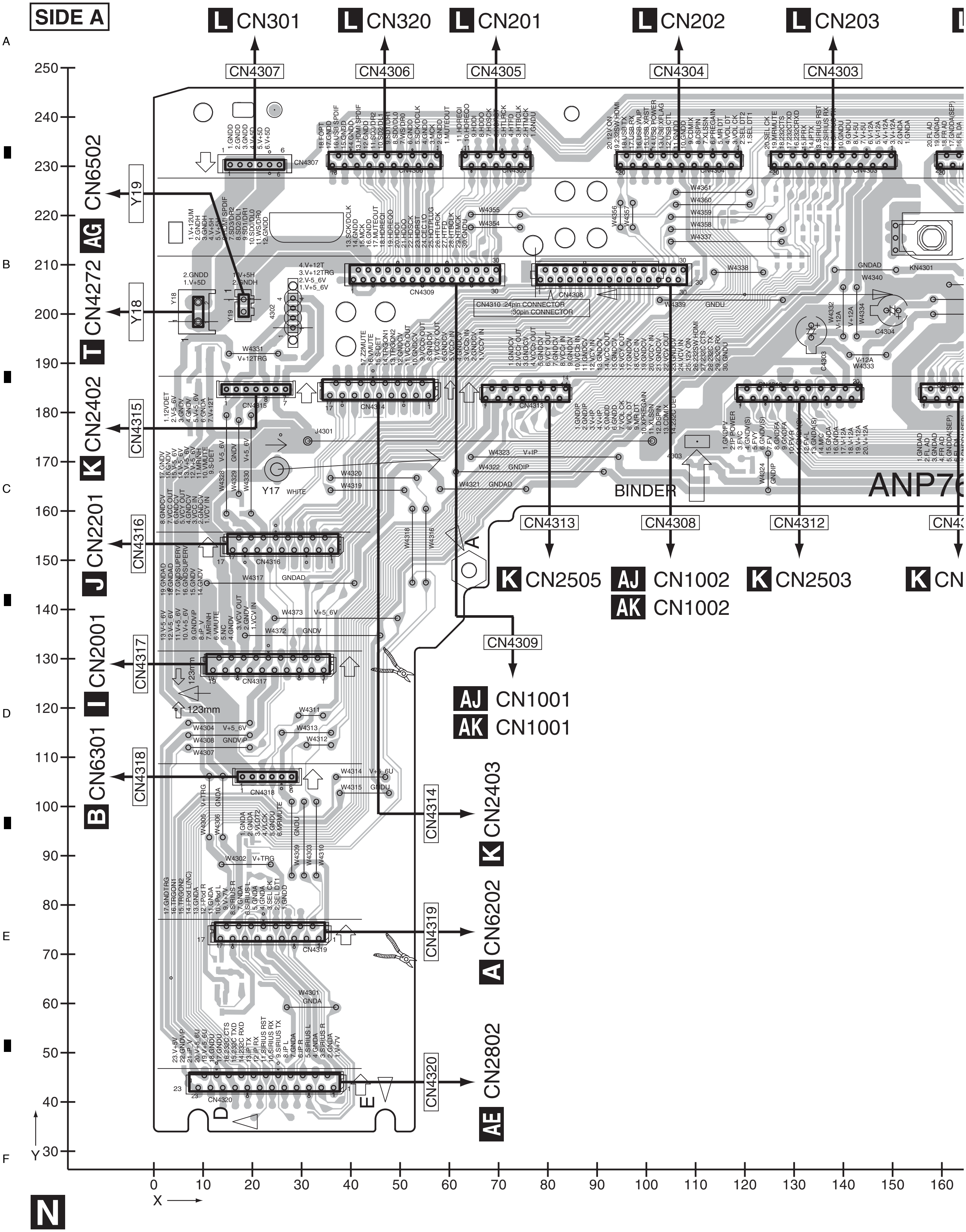

CN402
CN571
C502
CN301
C600
C232
IC581
C581
C582
L601
L202
TP053
TP054
TP056
TP058
TP069
TP072
TP081
TP027
TP028
TP029
TP031
TP033
TP035
TP037
TP039
TP041
TP043
TP045
TP047
TP049
TP050
TP051
TP052
TP068
TP071
TP073
TP917
TP919
TP920
TP921
TP922
TP915
TP916
TP911
TP913
TP914
TP201
TP301
TP302
TP303
TP304
TP306
TP307
Q201
L203
L301
CN201
IC362
IC361
C381
C383
L361
L362
L371
L372
R361
R362
TP730
IC364
IC372
TP707
TP708
TP721
TP722
TP723
TP724
TP725
TP726
TP736
11
8
18
21
24
27
28
31

SIDE B

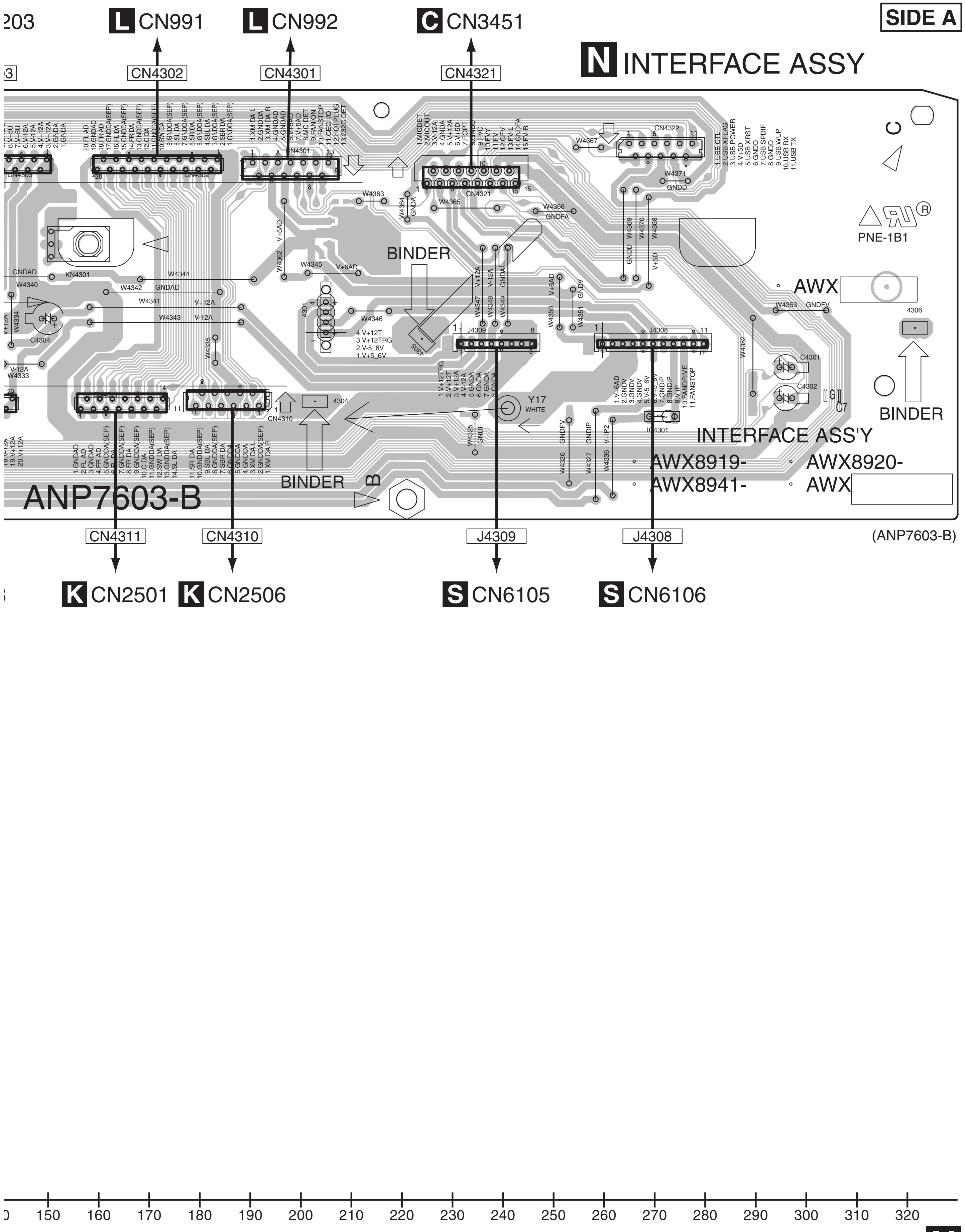

IC603
IC601
IC602
IC623
IC621
IC622
IC571
C571
C572
C535
R571
R572
TP057
TP055
TP056
TP601
TP603
TP602
TP918
TP914
TP911
TP913
TP004
TP901
TP909
TP910
TP907
TP906
TP905
TP904
TP903
TP908
TP201
TP070
TP068
TP107
TP105
TP106
TP104
TP101
IC401
L401
R219
R221
R123
R103
R149
L203
L101
CN401
TP024
CN201
IC162
IC161
C181
L161
L162
R162
R161
R901
R170
TP530
TP532
CN101
R150
R151
IC164
IC172
TP528
TP522
TP521
TP724
TP725
TP723
7
6
19
28

(ANP7611-A)

11.11 INTERFACE ASSY

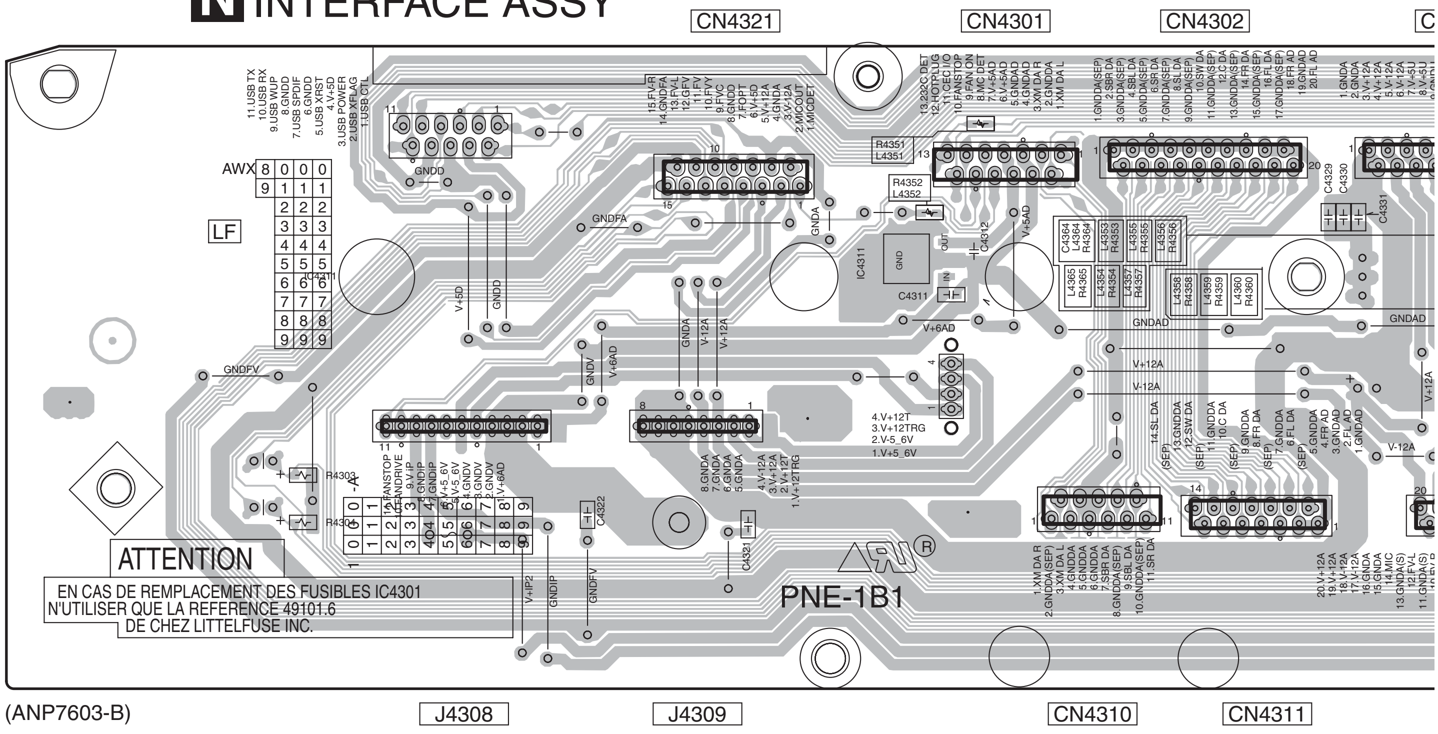

SIDE A
L CN301
L CN320
L CN201
L CN202
L CN203
CN4307
CN4306
CN4305
CN4304
CN4303
Y19
CN6502
AG
Y18
CN4272
T
CN4315
CN2402
K
CN4316
CN2201
J
CN4317
CN2001
I
CN4318
CN6301
B
CN4313
CN4308
CN4312
K CN2505
AJ CN1002
AK CN1002
K CN2503
CN4309
AJ CN1001
AK CN1001
CN4314
K CN2403
CN4319
A CN6202
CN4320
AE CN2802
CN4310 :24pin CONNECTOR :30pin CONNECTOR
BINDER
ANP76
Y17 WHITE
123mm
X
Y
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
A
B
C
D
E
F

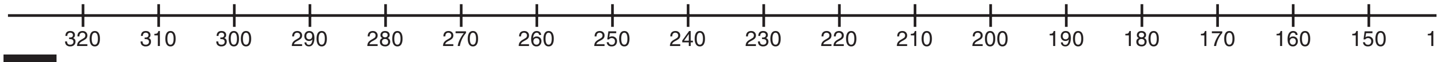
N


SIDE A
N INTERFACE ASSY
L CN991
L CN992
C CN3451
CN4302
CN4301
CN4321
CN4322
1.USB CTL
2.USB XFLAG
3.USB POWER
4.V+5D
5.USB XRST
6.GNDD
7.USB SPDIF
8.GNDD
9.USB WUP
10.USB RX
11.USB TX
1.MICDET
2.MICOUT
3.V+12A
4.GNDA
5.V-12A
6.V+5D
7.FOPT
8.GNDD
9.FVC
10.FVY
11.FV
12.GFV
13.FV-L
14.GNDFA
15.FV-R
1.XM DA L
2.GNDDA
3.XM DA R
4.GNDAD
5.GNDAD
6.V+5AD
7.V+5AD
8.MC DET
9.FAN ON
10.FANSTOP
11.CEC I/O
12.HOTPLUG
13.232C DET
20.FL AD
19.GNDAD
18.FR AD
17.GNDDA(SEP)
16.FL DA
15.GNDDA(SEP)
14.FR DA
13.GNDDA(SEP)
12.C DA
11.GNDDA(SEP)
10.SW DA
9.GNDDA(SEP)
8.SL DA
7.GNDDA(SEP)
6.SR DA
5.GNDDA(SEP)
4.SB L DA
3.GNDDA(SEP)
2.SBR DA
1.GNDDA(SEP)
W4367
W4371
GNDD
W4363
W4364
GNDA
W4365
W4366
GNDFA
W4369
W4370
W4368
GNDD
V+5D
PNE-1B1
BINDER
V+5AD
W4362
W4345
V+6AD
GNDAD
KN4301
W4344
W4340
W4342
GNDAD
W4341
V+12A
W4343
V-12A
V+12A
W4334
C4304
4301
W4346
4.V+12T
3.V+12TRG
2.V-5_6V
1.V+5_6V
4305
V+12A
V-12A
GNDA
W4347
W4348
W4349
V+6AD
GNDV
W4350
W4351
J4309
J4308
AWX
W4353
GNDFV
4306
W4352
C4301
C4302
BINDER
V-12A
W4333
W4335
1.V+12TRG
2.V+12T
3.V+12A
4.V-12A
5.GNDA
6.GNDA
7.GNDA
8.GNDA
Y17
WHITE
1.V+6AD
2.GNDV
3.GNDV
4.GNDV
5.V+5_6V
6.V+5_6V
7.GNDIP
8.GNDIP
9.V+IP
10.FANDRIVE
11.FANSTOP
IC4301
INTERFACE ASS'Y
AWX8919-
AWX8920-
AWX8941-
AWX
W4325
GNDF
W4326
GNDFV
W4327
GNDIP
W4336
V+IP2
C7
4304
CN4310
18.V+12A
19.V+12A
20.V+12A
1.GNDAD
2.FL AD
3.GNDAD
4.FR AD
5.GNDDA(SEP)
6.FL DA
7.GNDDA(SEP)
8.FR DA
9.GNDDA(SEP)
10.C DA
11.GNDDA(SEP)
12.SW DA
13.GNDDA(SEP)
14.SL DA
11.SR DA
10.GNDDA(SEP)
9.SB L DA
8.GNDDA(SEP)
7.SBR DA
6.GNDDA
5.GNDDA
4.GNDDA
3.XM DA L
2.GNDDA(SEP)
1.XM DA R
BINDER
B
C
ANP7603-B
CN4311
CN4310
J4309
J4308
(ANP7603-B)
K CN2501
K CN2506
S CN6105
S CN6106
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320

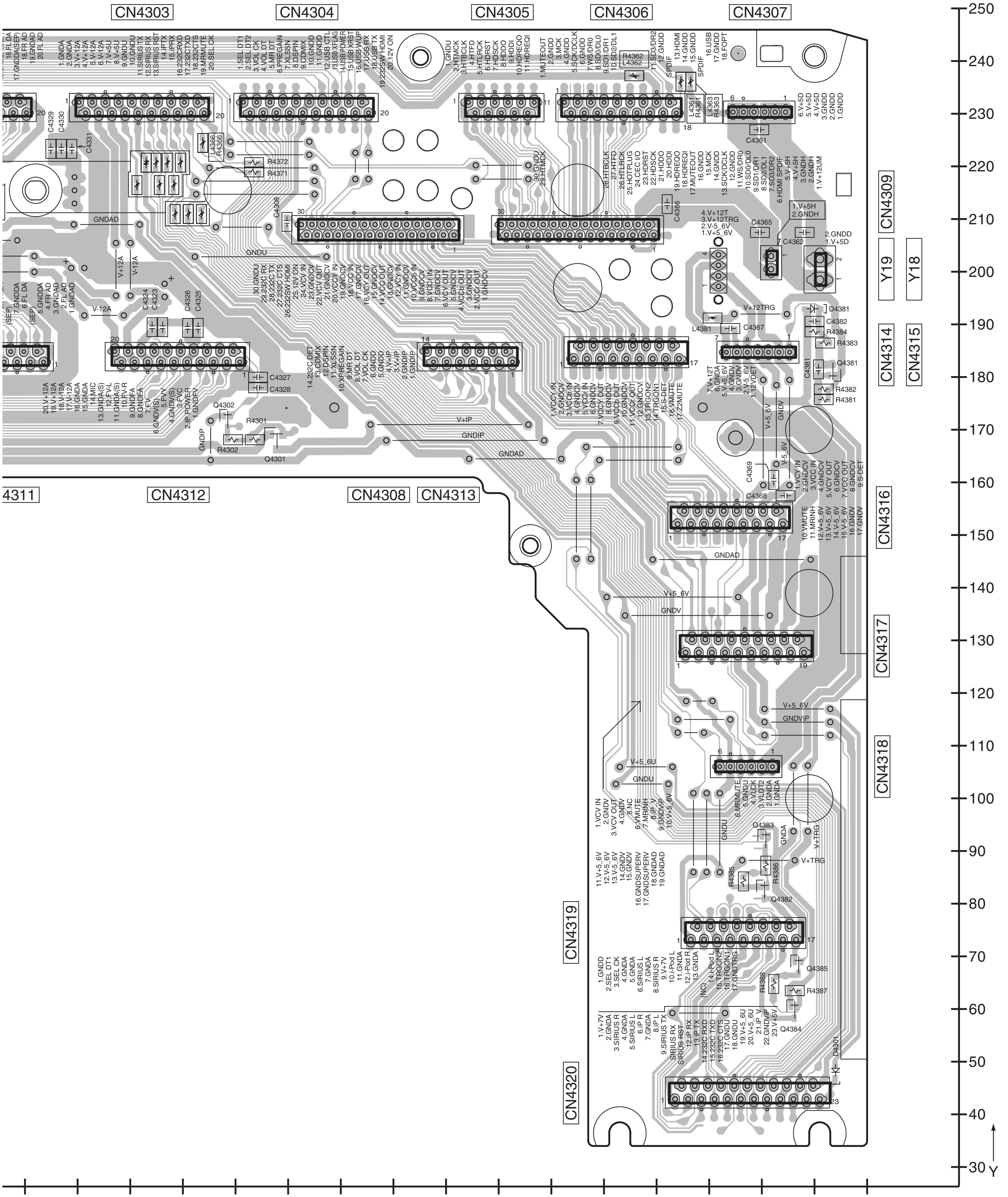
SIDE B

N INTERFACE ASSY


CN4321
CN4301
CN4302
11.USB TX
10.USB RX
9.USB WUP
8.GNDD
7.USB SPDIF
6.GNDD
5.USB XRST
4.V+5D
3.USB POWER
2.USB XFLAG
1.USB CTL
15.FV-R
14.GNDFA
13.FV-L
12.GFV
11.FV
10.FVY
9.FVC
8.GNDD
7.FOPT
6.V+5D
5.V+12A
4.GNDA
3.V-12A
2.MICOUT
1.MICDET
13.22C DET
12.HOTPLUG
11.CEC I/O
10.FANSTOP
9.FAN ON
8.MC DET
7.V+5AD
6.V+5AD
5.GNDAD
4.GNDAD
3.XM DA R
2.GNDDA
1.XM DA L
AWX
LF
GNDD
GNDFA
GNDFV
GNDA
GNDV
V+5D
V+6AD
V-12A
V+12A
IC4311
C4311
C4312
R4351
L4351
R4352
L4352
GNDAD
V+6AD
4.V+12T
3.V+12TRG
2.V-5_6V
1.V+5_6V
12.FANSTOP
11.FANDRIVE
8.GNDA
7.GNDA
6.GNDA
5.GNDA
4.V+12A
3.V+12A
2.V+12T
1.V+12TRG
R4303
R4304
C4321
C4322
V+IP2
GNDIP
GNDFV
ATTENTION
EN CAS DE REMPLACEMENT DES FUSIBLES IC4301
N'UTILISER QUE LA REFERENCE 49101.6
DE CHEZ LITTELFUSE INC.
PNE-1B1
(ANP7603-B)
J4308
J4309
CN4310
CN4311
1.XM DA R
2.GNDDA(SEP)
3.XM DA L
4.GNDDA
5.GNDDA
6.GNDDA
7.SBR DA
8.GNDDA(SEP)
9.SBL DA
10.GNDDA(SEP)
11.SR DA
14.SL DA
13.GNDDA
12.SW DA
11.GNDDA
10.C DA
9.GNDDA
8.FR DA
7.GNDDA
6.FL DA
5.GNDDA
4.FR AD
3.GNDAD
2.FL AD
1.GNDAD
C4329
C4330
C4331
V+12A
V-12A
GNDAD


320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150

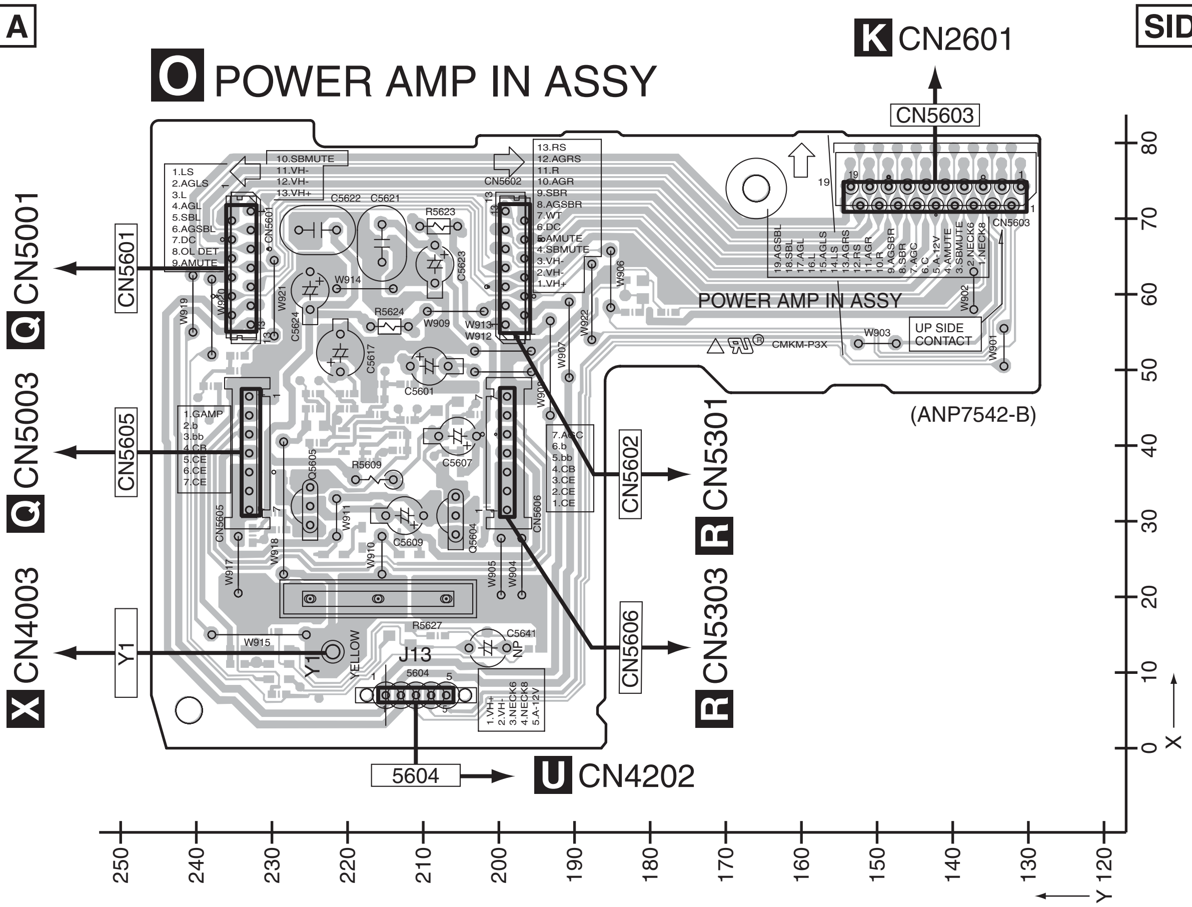
SIDE B


CN4303
CN4304
CN4305
CN4306
CN4307
CN4309
Y19
Y18
CN4314
CN4315
CN4316
CN4317
CN4318
CN4319
CN4320
4311
CN4312
CN4308
CN4313
GNDAD
GNDU
V+12A
V-12A
V+IP
GNDIP
GNDAD
V+5_6V
GNDV
V+5_6V
GNDVIP
V+5_6U
GNDU
V+12TRG
V+TRG
C4329
C4330
C4331
L4366
R4366
R4372
R4371
C4308
C4324
C4323
C4326
C4325
C4327
C4328
Q4302
R4301
R4302
Q4301
R4362
L4362
L4361
R4361
L4363
R4363
C4361
C4366
C4365
C4362
L4381
C4367
D4381
C4382
R4384
R4383
C4381
Q4381
R4382
R4381
C4369
C4368
Q4383
R4385
R4386
Q4382
Q4385
R4388
R4387
Q4384
D4301
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
Y
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
X

11.12 POWER AMP IN ASSY

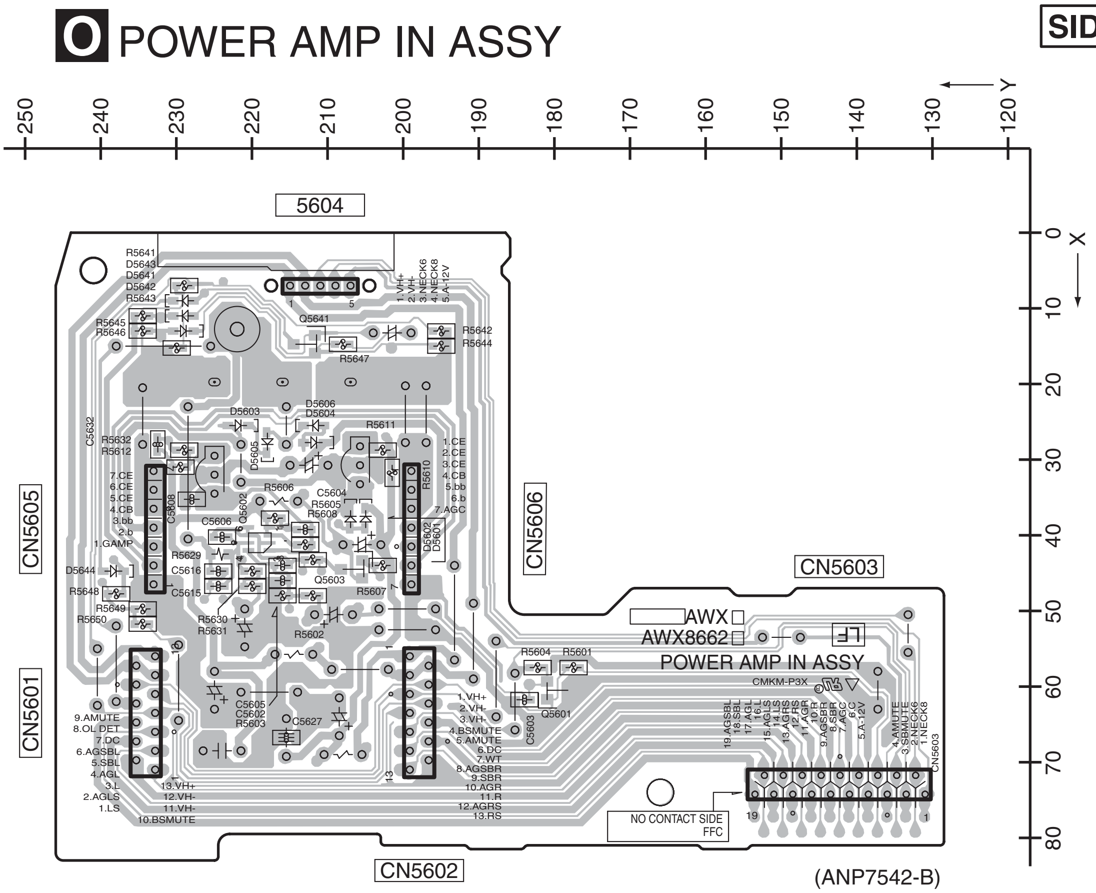
SIDE A

SIDE A


O POWER AMP IN ASSY
K CN2601
CN5603
Q CN5001
CN5601
Q CN5003
CN5605
X CN4003
Y1
CN5602
R CN5301
CN5606
R CN5303
5604
U CN4202
J13
YELLOW
POWER AMP IN ASSY
UP SIDE CONTACT
CMKM-P3X
(ANP7542-B)
1.LS
2.AGLS
3.L
4.AGL
5.SBL
6.AGSBL
7.DC
8.OL DET
9.AMUTE
10.SBMUTE
11.VH-
12.VH-
13.VH+
13.RS
12.AGRS
11.R
10.AGR
9.SBR
8.AGSBR
7.WT
6.DC
5.AMUTE
4.SBMUTE
3.VH-
2.VH-
1.VH+
1.GAMP
2.b
3.bb
4.CB
5.CE
6.CE
7.CE
7.AGC
6.b
5.bb
4.CB
3.CE
2.CE
1.CE
1.VH+
2.VH-
3.NECK6
4.NECK8
5.A-12V
19.AGSBL
18.SBL
17.AGL
16.L
15.AGLS
14.LS
13.AGRS
12.RS
11.AGR
10.R
9.AGSBR
8.SBR
7.AGC
6.C
5.A-12V
4.AMUTE
3.SBMUTE
2.NECK6
1.NECK8
C5622
C5621
R5623
C5623
R5624
C5624
C5617
C5601
C5607
R5609
Q5605
C5609
Q5604
R5627
C5641
NP
W901
W902
W903
W904
W905
W906
W907
W909
W910
W911
W912
W913
W914
W915
W917
W918
W919
W920
W921
W922
80
70
60
50
40
30
20
10
0
X
250
240
230
220
210
200
190
180
170
160
150
140
130
120
Y

SIDE B

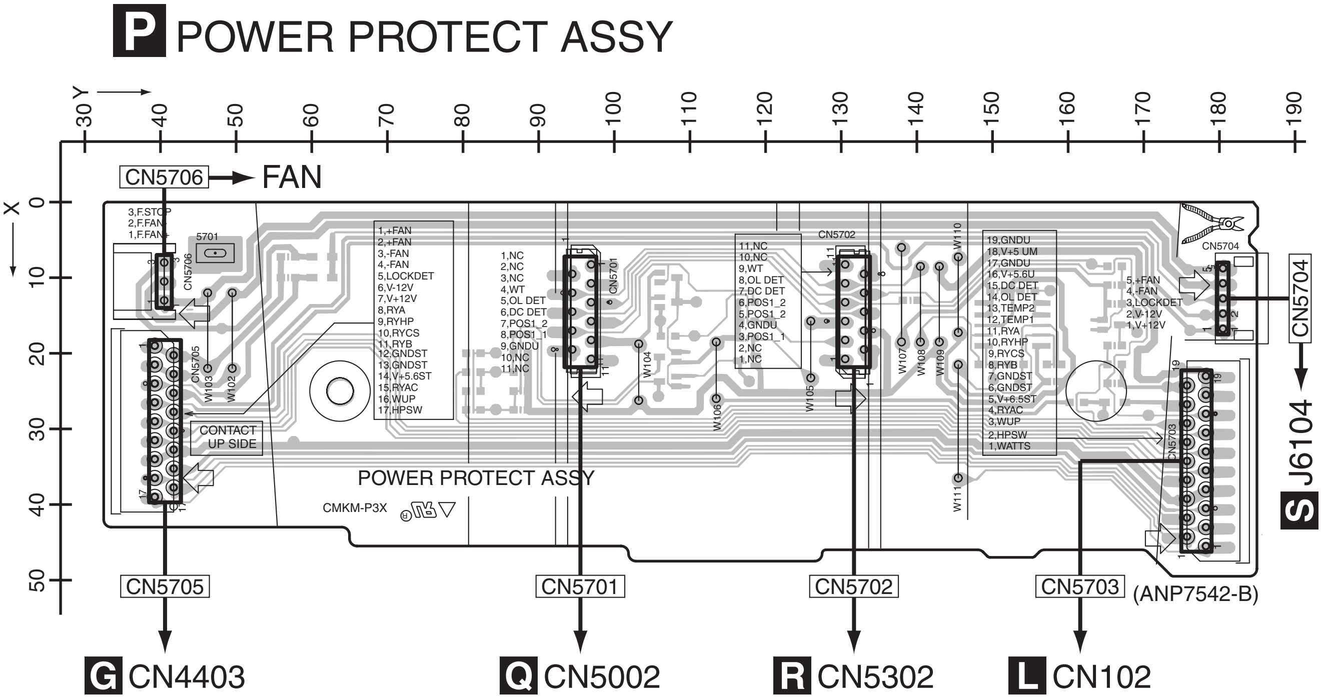
SIDE B


O POWER AMP IN ASSY
5604
CN5605
CN5606
CN5601
CN5602
CN5603
AWX
AWX8662
LF
POWER AMP IN ASSY
CMKM-P3X
NO CONTACT SIDE FFC
(ANP7542-B)
R5641
D5643
D5641
D5642
R5643
R5645
R5646
Q5641
R5647
R5642
R5644
D5603
D5606
D5604
D5605
R5611
C5632
R5632
R5612
C5608
Q5602
R5606
C5604
R5605
R5608
C5606
R5610
D5602
D5601
R5629
C5616
C5615
Q5603
R5607
D5644
R5648
R5649
R5650
R5630
R5631
R5602
C5605
C5602
R5603
C5627
C5603
R5604
R5601
Q5601
1.VH+
2.VH-
3.NECK6
4.NECK8
5.A-12V
7.CE
6.CE
5.CE
4.CB
3.bb
2.b
1.GAMP
1.CE
2.CE
3.CE
4.CB
5.bb
6.b
7.AGC
9.AMUTE
8.OL DET
7.DC
6.AGSBL
5.SBL
4.AGL
3.L
2.AGLS
1.LS
13.VH+
12.VH-
11.VH-
10.BSMUTE
1.VH+
2.VH-
3.VH-
4.BSMUTE
5.AMUTE
6.DC
7.WT
8.AGSBR
9.SBR
10.AGR
11.R
12.AGRS
13.RS
19.AGSBL
18.SBL
17.AGL
16.L
15.AGLS
14.LS
13.AGRS
12.RS
11.AGR
10.R
9.AGSBR
8.SBR
7.AGC
6.C
5.A-12V
4.AMUTE
3.SBMUTE
2.NECK6
1.NECK8
250
240
230
220
210
200
190
180
170
160
150
140
130
120
Y
0
10
20
30
40
50
60
70
80
X

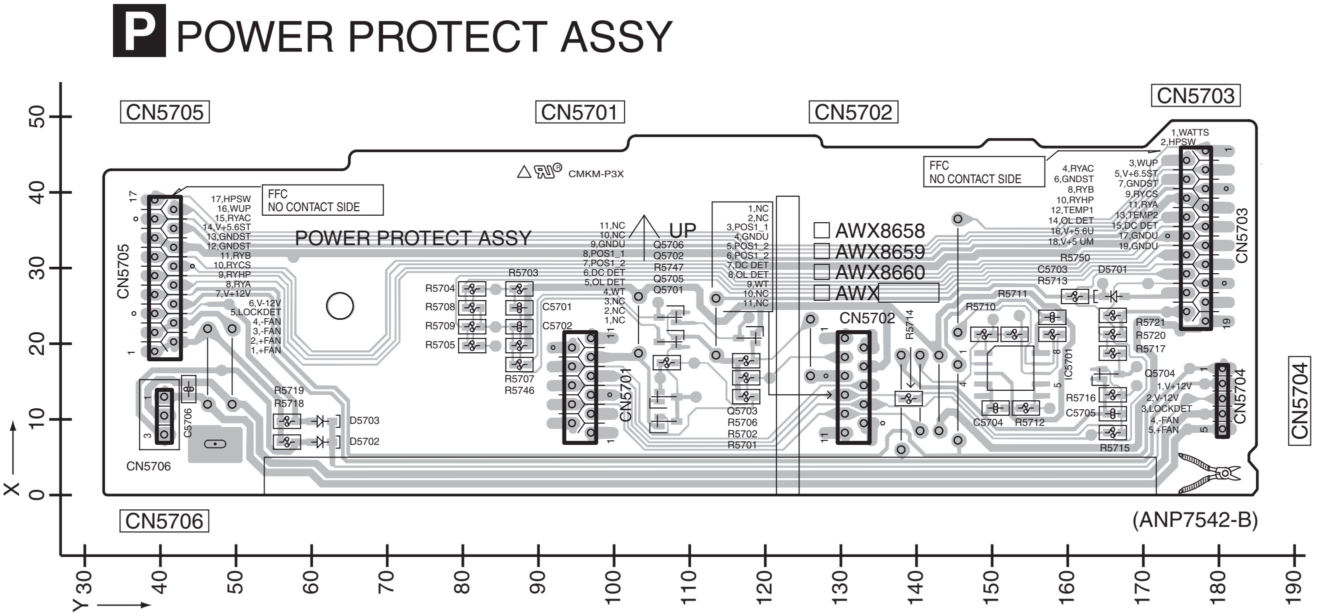
O **O**

11.13 POWER PROTECT ASSY

SIDE A **SIDE A**

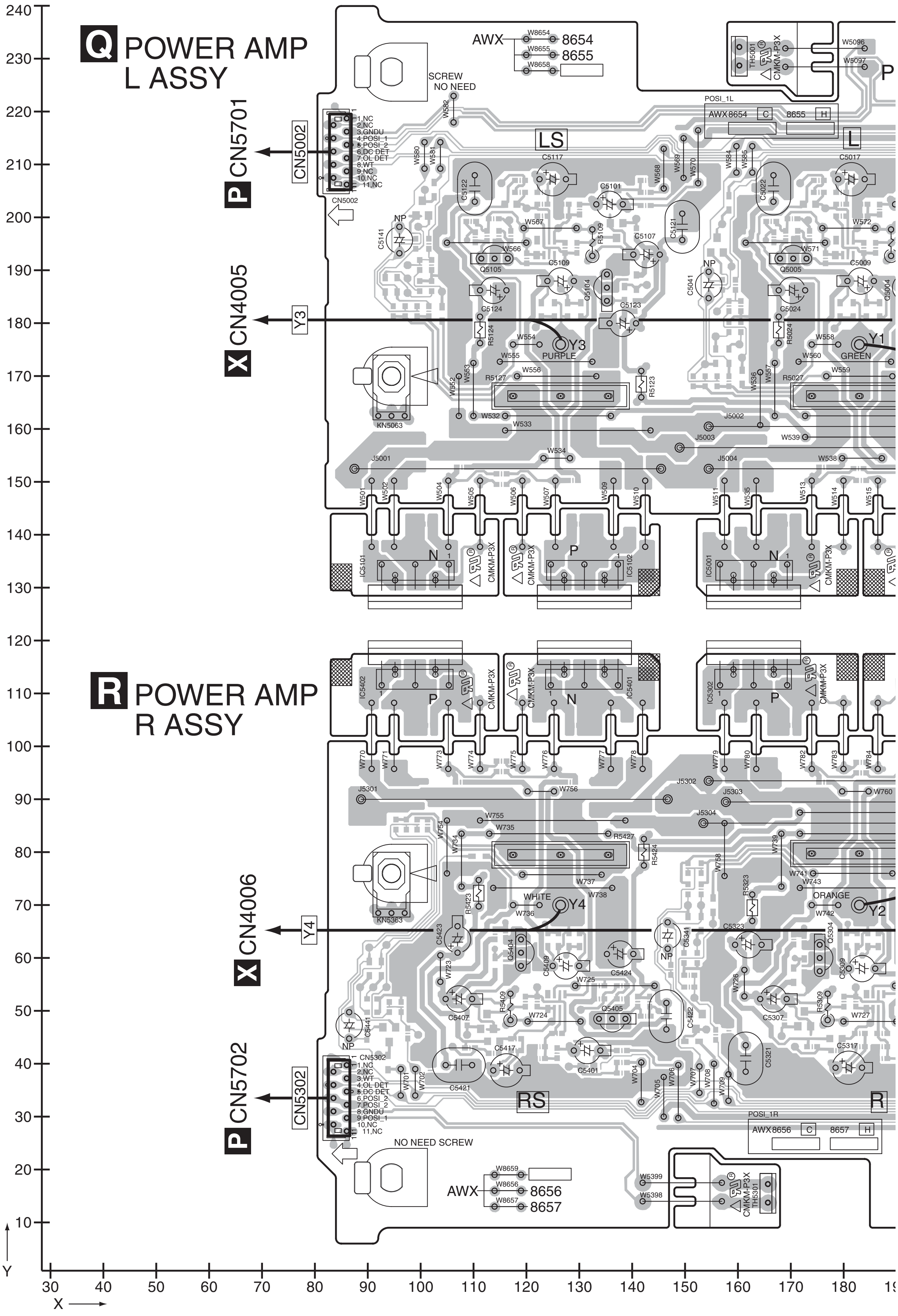

P POWER PROTECT ASSY
Y 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190
X 0 10 20 30 40 50
CN5706 → FAN
3,F.STOP
2,F.FAN
1,F.FAN+
5701
1,+FAN
2,+FAN
3,-FAN
4,-FAN
5,LOCKDET
6,V-12V
7,V+12V
8,RYA
9,RYHP
10,RYCS
11,RYB
12,GNDST
13,GNDST
14,V+5.6ST
15,RYAC
16,WUP
17,HPSW
CONTACT UP SIDE
1,NC
2,NC
3,NC
4,WT
5,OL DET
6,DC DET
7,POS1_2
8,POS1_1
9,GNDU
10,NC
11,NC
CN5701
11,NC
10,NC
9,WT
8,OL DET
7,DC DET
6,POS1_2
5,POS1_2
4,GNDU
3,POS1_1
2,NC
1,NC
CN5702
19,GNDU
18,V+5 UM
17,GNDU
16,V+5.6U
15,DC DET
14,OL DET
13,TEMP2
12,TEMP1
11,RYA
10,RYHP
9,RYCS
8,RYB
7,GNDST
6,GNDST
5,V+6.5ST
4,RYAC
3,WUP
2,HPSW
1,WATTS
CN5704
5,+FAN
4,-FAN
3,LOCKDET
2,V-12V
1,V+12V
CN5704
S J6104
CN5703
W102 W103 W104 W105 W106 W107 W108 W109 W110 W111
POWER PROTECT ASSY
CMKM-P3X
CN5705
CN5701
CN5702
CN5703
(ANP7542-B)
G CN4403
Q CN5002
R CN5302
L CN102

SIDE B **SIDE B**


P POWER PROTECT ASSY
CN5705
CN5701
CN5702
CN5703
CMKM-P3X
17,HPSW
16,WUP
15,RYAC
14,V+5.6ST
13,GNDST
12,GNDST
11,RYB
10,RYCS
9,RYHP
8,RYA
7,V+12V
6,V-12V
5,LOCKDET
4,-FAN
3,-FAN
2,+FAN
1,+FAN
FFC NO CONTACT SIDE
POWER PROTECT ASSY
11,NC
10,NC
9,GNDU
8,POS1_1
7,POS1_2
6,DC DET
5,OL DET
4,WT
3,NC
2,NC
1,NC
UP
Q5706
Q5702
R5747
Q5705
Q5701
1,NC
2,NC
3,POS1_1
4,GNDU
5,POS1_2
6,POS1_2
7,DC DET
8,OL DET
9,WT
10,NC
11,NC
☐ AWX8658
☐ AWX8659
☐ AWX8660
☐ AWX
FFC NO CONTACT SIDE
1,WATTS
2,HPSW
3,WUP
4,RYAC
5,V+6.5ST
6,GNDST
7,GNDST
8,RYB
9,RYCS
10,RYHP
11,RYA
12,TEMP1
13,TEMP2
14,OL DET
15,DC DET
16,V+5.6U
17,GNDU
18,V+5 UM
19,GNDU
R5750
C5703 R5713 D5701
R5704 R5708 R5709 R5705 R5703 C5701 C5702 R5707 R5746
CN5701
Q5703 R5706 R5702 R5701
CN5702
R5714 R5710 R5711 IC5701
C5704 R5712 R5716 C5705 R5715
R5721 R5720 R5717
Q5704
1,V+12V
2,V-12V
3,LOCKDET
4,-FAN
5,+FAN
CN5704
CN5704
R5719 R5718 D5703 D5702
C5706
CN5706
CN5706
(ANP7542-B)
X 0 10 20 30 40 50
Y 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

11.14 POWER AMP L and POWER AMP R ASSYS

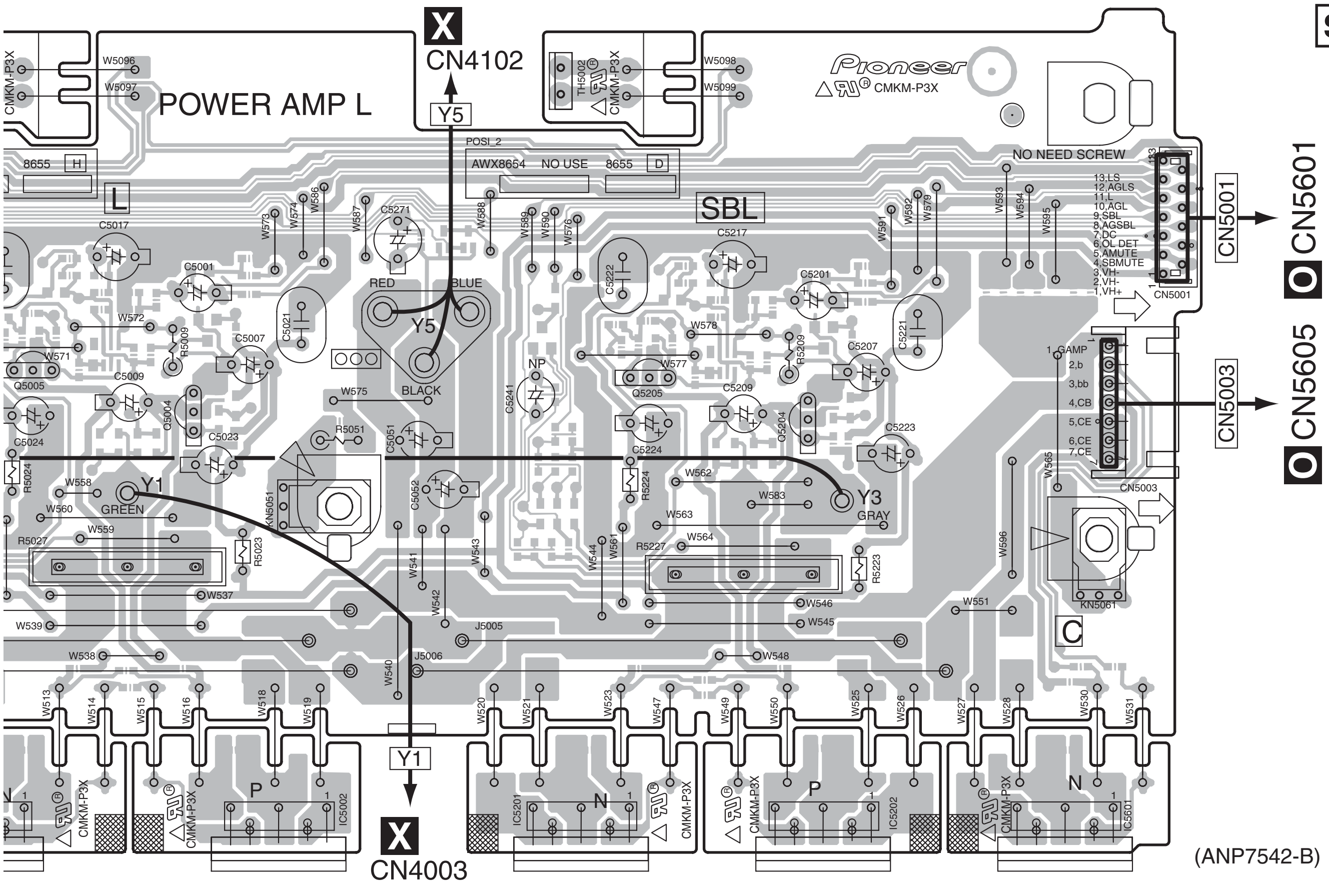
SIDE A


Q POWER AMP L ASSY
R POWER AMP R ASSY
P CN5701
CN5002
X CN4005
Y3
X CN4006
Y4
P CN5702
CN5302
AWX 8654
8655
AWX 8656
8657
SCREW NO NEED
NO NEED SCREW
POSI_1L
POSI_1R
LS
L
RS
R
Y3 PURPLE
Y1 GREEN
Y4 WHITE
Y2 ORANGE
IC5101
IC5102
IC5001
IC5402
IC5401
IC5302
CMKM-P3X
TH5001
TH5301
KN5063
KN5363
1,NC
2,NC
3,GNDU
4,POSI_1
5,POSI_2
6,DC DET
7,OL DET
8,WT
9,NC
10,NC
11,NC
1,NC
2,NC
3,WT
4,OL DET
5,DC DET
6,POSI_2
7,POSI_2
8,GNDU
9,POSI_1
10,NC
11,NC
N
P
NP
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
X

Q **R**

SIDE A

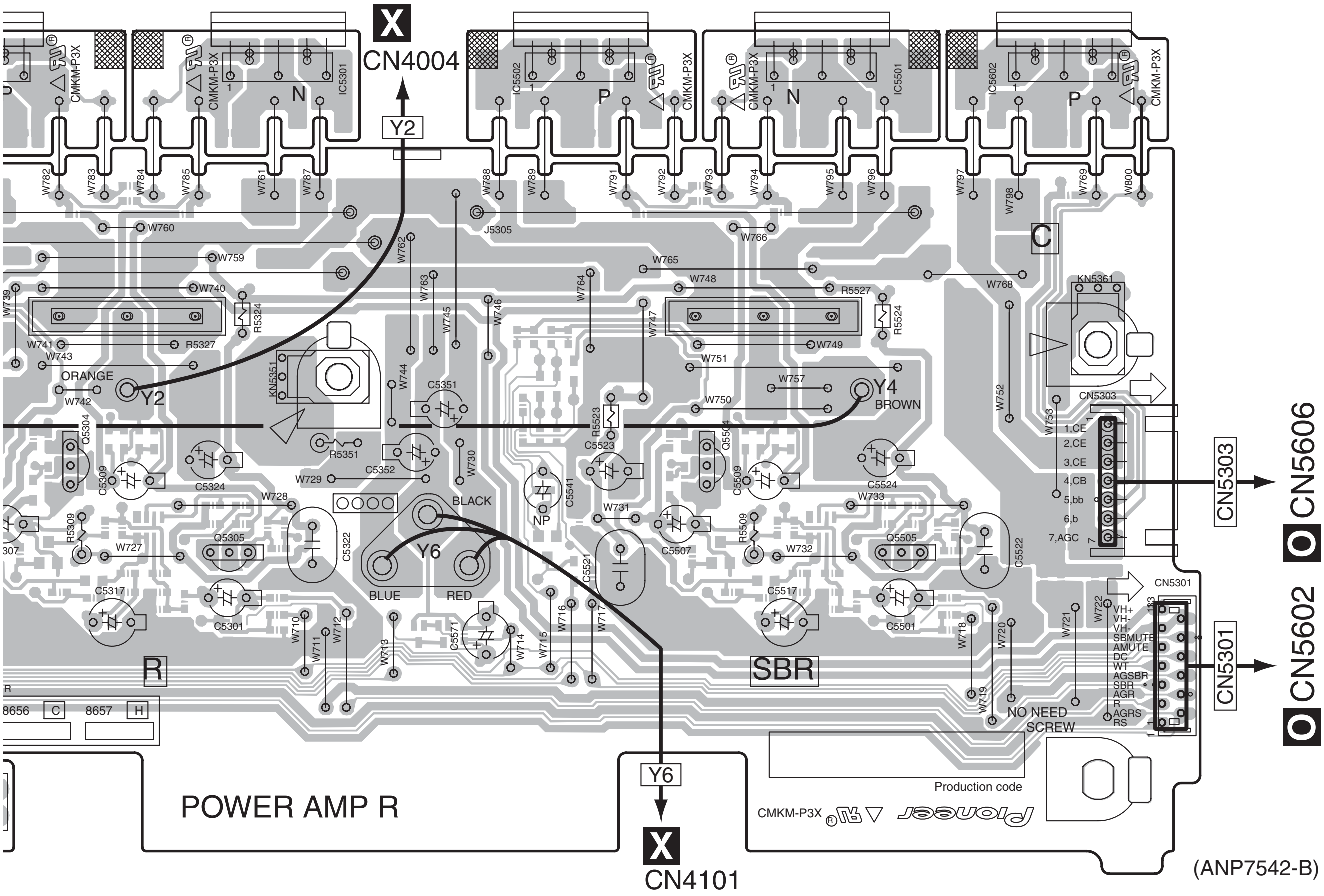
A


X
CN4102
Y5
POWER AMP L
CMKM-P3X
W5096
W5097
W5098
W5099
TH5002
Pioneer
NO NEED SCREW
8655 H
POSI_2
AWX8654 NO USE 8655 D
L
SBL
RED
BLUE
BLACK
Y5
NP
Y1
GREEN
Y3
GRAY
C
CN5001
13,LS
12,AGLS
11,L
10,AGL
9,SBL
8,AGSBL
7,DC
6,OL DET
5,AMUTE
4,SBMUTE
3,VH-
2,VH-
1,VH+
CN5601
CN5003
1,GAMP
2,b
3,bb
4,CB
5,CE
6,CE
7,CE
CN5605
KN5051
KN5061
J5005
J5006
IC5002
IC5201
IC5202
IC5601
N
P
N
P
N
Y1
X
CN4003

B

C

(ANP7542-B)


X
CN4004
Y2
IC5301
IC5502
IC5501
IC5602
N
P
N
P
J5305
C
KN5361
KN5351
ORANGE
Y2
Y4
BROWN
BLACK
NP
Y6
BLUE
RED
CN5303
1,CE
2,CE
3,CE
4,CB
5,bb
6,b
7,AGC
CN5606
CN5301
VH+
VH-
VH-
SBMUTE
AMUTE
DC
WT
AGSBR
SBR
AGR
R
AGRS
RS
CN5602
R
SBR
8656 C
8657 H
NO NEED SCREW
Production code
POWER AMP R
CMKM-P3X
Pioneer
Y6
X
CN4101

D

E

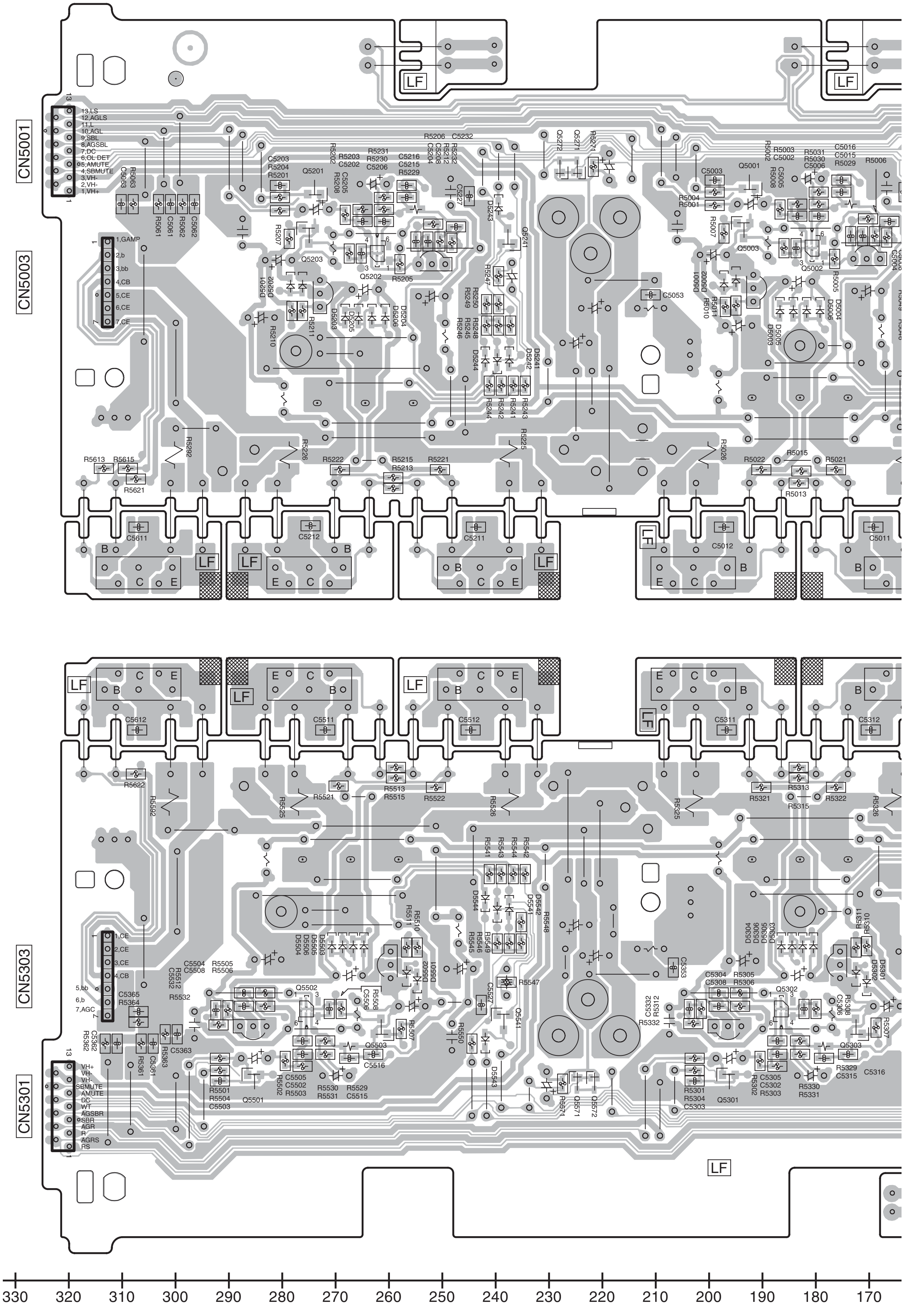
F

(ANP7542-B)

170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330

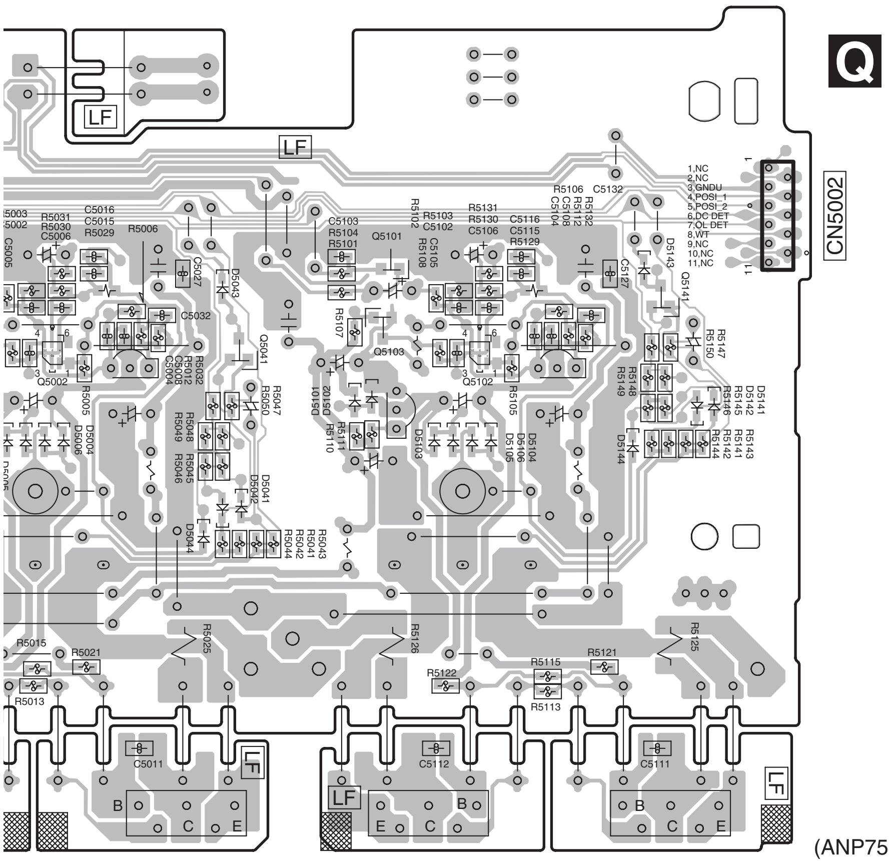
Q R

SIDE B


CN5001
13,LS
12,AGLS
11,L
10,AGL
9,SBL
8,AGSBL
7,DC
6,OL DET
5,AMUTE
4,SBMUTE
3,VH-
2,VH-
1,VH+
CN5003
1,GAMP
2,b
3,bb
4,CB
5,CE
6,CE
7,CE
LF
R5063
C5063
R5061
C5061
R5062
C5062
C5203
R5204
R5201
Q5201
R5202
R5203
C5202
C5205
R5208
R5231
R5230
C5206
C5216
C5215
R5229
R5206
C5232
R5212
C5208
C5204
C5227
D5243
Q5272
Q5271
R5271
Q5241
R5207
Q5203
Q5202
R5205
D5202
D5201
D5203
D5205
D5206
D5204
R5211
R5210
R5247
R5250
R5249
R5248
R5245
R5246
D5241
D5242
D5244
R5242
R5244
R5241
R5243
C5053
R5002
R5003
C5002
R5031
R5030
C5006
C5016
C5015
R5029
R5006
C5003
Q5001
C5005
R5008
R5004
R5001
R5007
Q5003
Q5002
D5002
D5001
R5011
R5010
D5005
D5003
D5004
D5006
R5005
R5613
R5615
R5621
R5292
R5226
R5222
R5215
R5213
R5221
R5225
R5026
R5022
R5015
R5013
R5021
C5611
C5212
C5211
C5012
C5011
B
C
E
C5612
C5511
C5512
C5311
C5312
R5622
R5592
R5525
R5521
R5513
R5515
R5522
R5526
R5321
R5313
R5315
R5322
R5326
R5541
R5543
R5544
R5542
D5544
D5541
D5542
R5548
R5546
R5549
R5545
R5511
R5510
D5503
D5505
D5506
D5504
CN5303
1,CE
2,CE
3,CE
4,CB
5,bb
6,b
7,AGC
C5504
C5508
R5505
R5506
R5512
C5532
R5532
C5365
R5364
C5362
R5362
R5361
C5361
R5363
C5363
Q5502
R5508
C5506
R5507
D5502
D5501
C5527
R5547
Q5541
R5550
D5543
C5353
C5304
C5308
R5305
R5306
Q5302
C5332
R5312
R5332
D5304
D5306
D5305
D5303
R5311
R5310
D5301
C5306
R5308
R5307
CN5301
VH+
VH-
VH-
SBMUTE
AMUTE
DC
WT
AGSBR
SBR
AGR
R
AGRS
RS
R5501
R5504
C5503
Q5501
C5505
C5502
R5503
R5502
R5530
R5531
R5529
C5515
Q5503
C5516
R5571
Q5571
Q5572
R5301
R5304
C5303
Q5301
C5305
C5302
R5303
R5302
R5330
R5331
R5329
C5315
Q5303
C5316
330
320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170

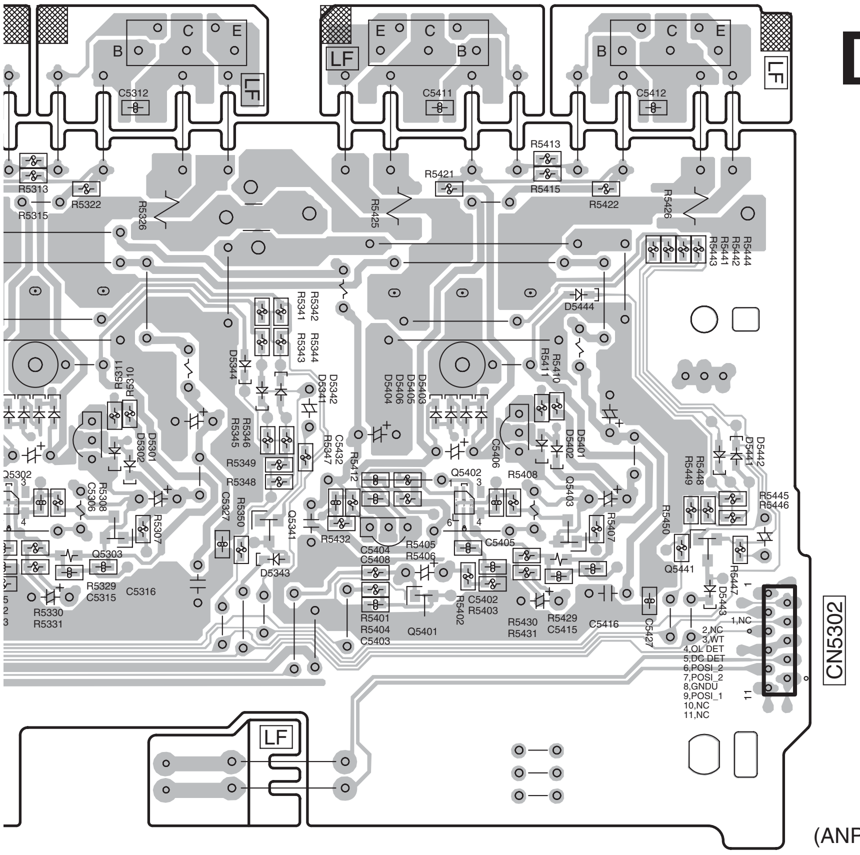
SIDE B

Q POWER AMP L ASSY


CN5002
1,NC
2,NC
3,GNDU
4,POSI_1
5,POSI_2
6,DC DET
7,OL DET
8,WT
9,NC
10,NC
11,NC
LF
C5011
C5112
C5111
B C E

(ANP7542-B)

R POWER AMP R ASSY

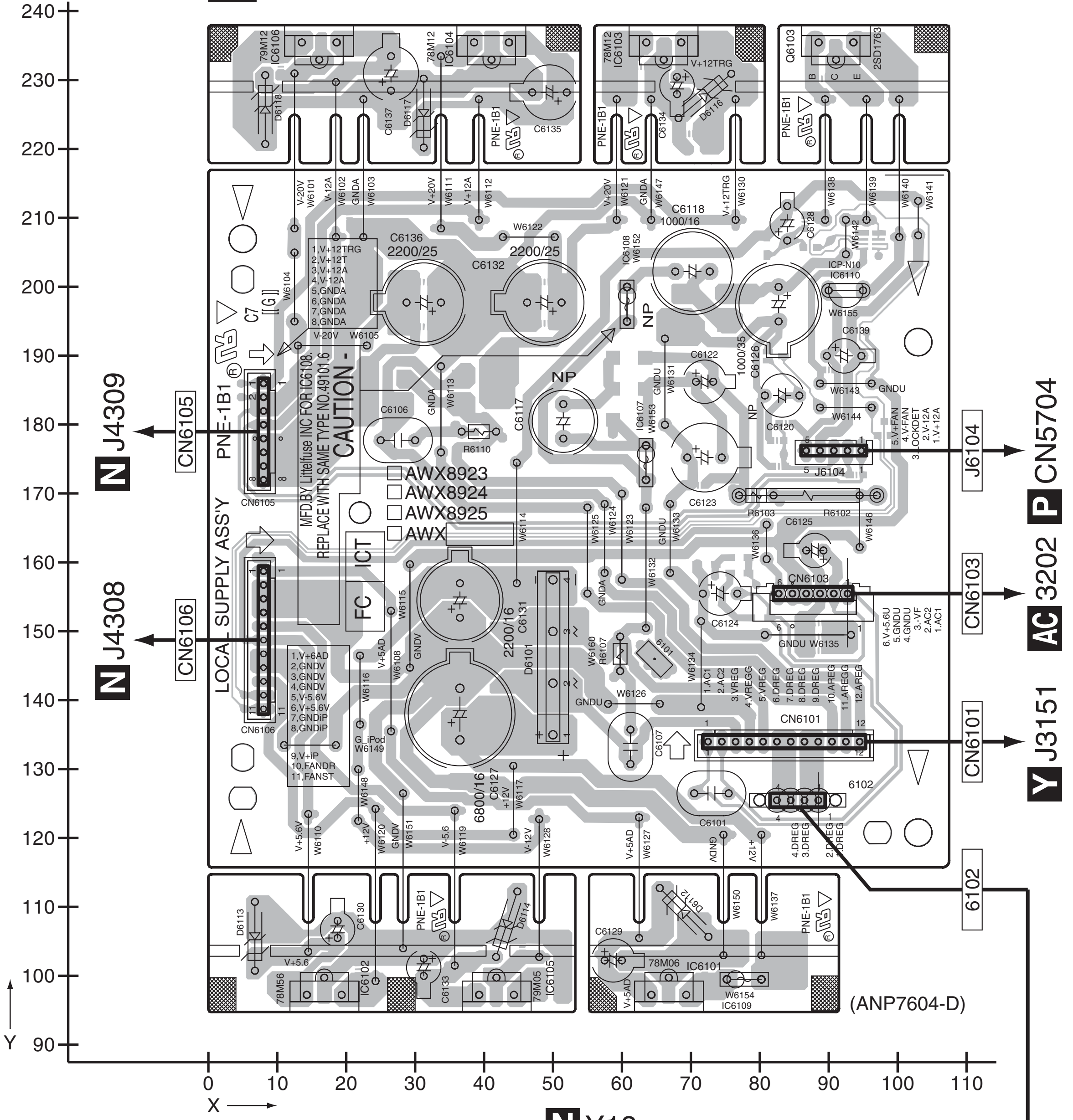

CN5302
1,NC
2,NC
3,WT
4,OL DET
5,DC DET
6,POSI_2
7,POSI_2
8,GNDU
9,POSI_1
10,NC
11,NC
LF
C5312
C5411
C5412
B C E

(ANP7542-B)

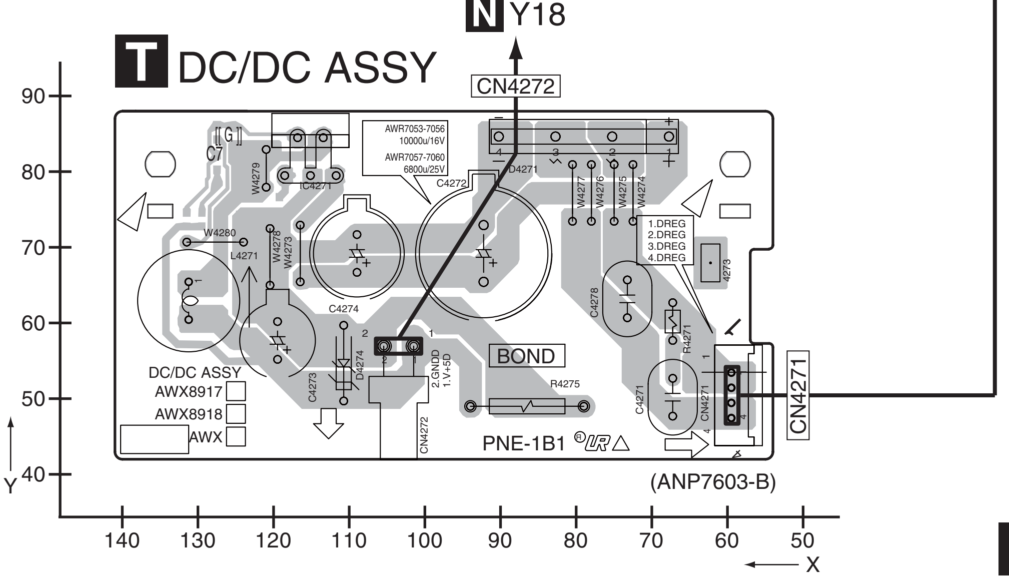
11.15 LOCAL SUPPLY and DC/DC ASSYS

SIDE A **SIDE A**

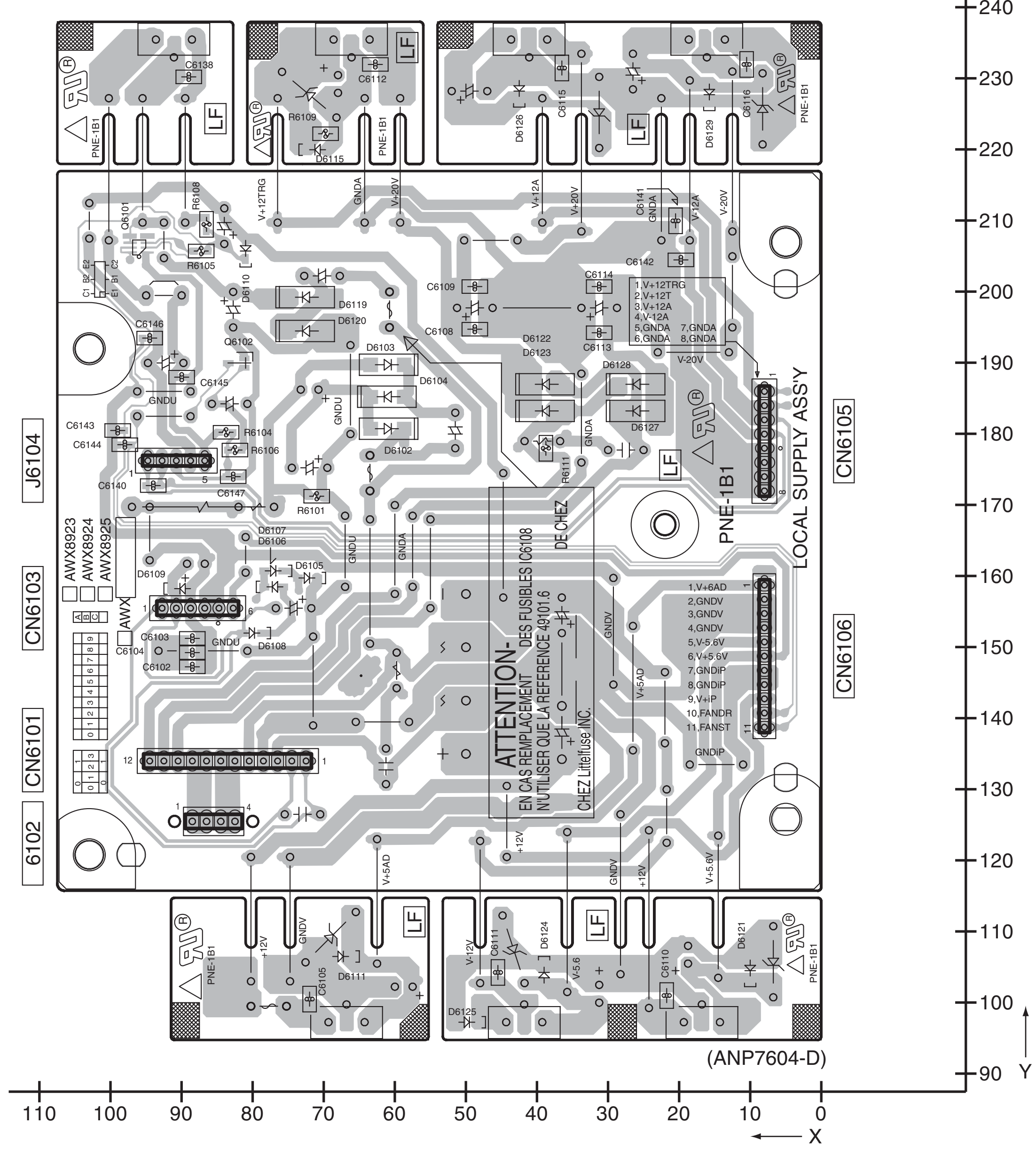
S LOCAL SUPPLY ASSY


CN6105
N J4309
CN6106
N J4308
J6104
P CN5704
CN6103
AC 3202
CN6101
Y J3151
6102
LOCAL SUPPLY ASS'Y
PNE-1B1
CAUTION -
REPLACE WITH SAME TYPE NO.491016
MFD.BY Littelfuse INC FOR IC6108
AWX8923
AWX8924
AWX8925
AWX
FC
ICT
C6136 2200/25
C6132 2200/25
C6118 1000/16
C6126 1000/35
C6131 2200/16
C6127 6800/16
D6101
CN6101
1.AC1 2.AC2 3.VREG 4.VREG 5.VREG 6.DREG 7.DREG 8.DREG 9.DREG 10.AREG 11.AREG 12.AREG
1,V+12TRG 2,V+12T 3,V+12A 4,V-12A 5,GNDA 6,GNDA 7,GNDA 8,GNDA
1,V+6AD 2,GNDV 3,GNDV 4,GNDV 5,V-5.6V 6,V+5.6V 7,GNDiP 8,GNDiP 9,V+iP 10,FANDR 11,FANST
5.V+FAN 4.V-FAN 3.LOCKDET 2.V-12A 1.V+12A
6.V+5.6U 5.GNDU 4.GNDU 3.-VF 2.AC2 1.AC1
79M12 IC6106
78M12 IC6104
78M12 IC6103
Q6103 2SD1763
78M56 IC6102
79M05 IC6105
78M06 IC6101
IC6109
(ANP7604-D)
240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90
Y
0 10 20 30 40 50 60 70 80 90 100 110
X

T DC/DC ASSY

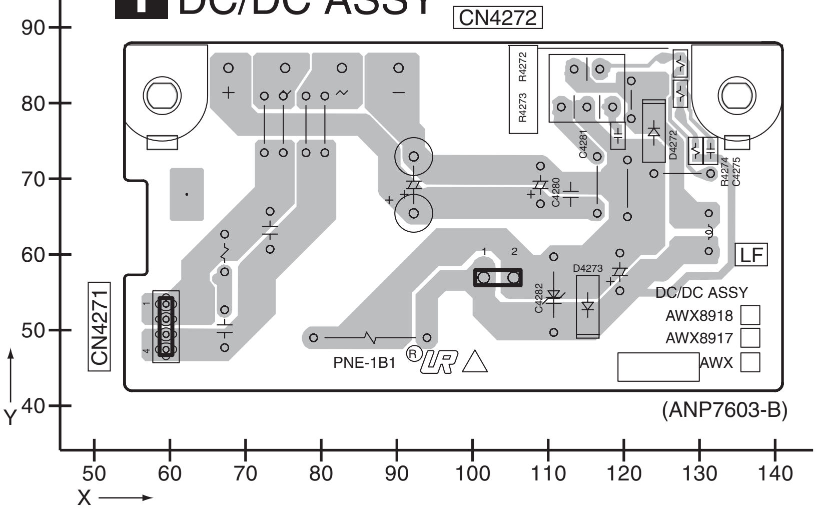

N Y18
CN4272
AWR7053-7056 10000u/16V
AWR7057-7060 6800u/25V
C4272
D4271
IC4271
L4271
C4274
C4273
D4274
1.DREG 2.DREG 3.DREG 4.DREG
BOND
2.GNDD 1.V+5D
R4275
R4271
C4271
C4278
CN4271
DC/DC ASSY
AWX8917
AWX8918
AWX
PNE-1B1
(ANP7603-B)
90 80 70 60 50 40
Y
140 130 120 110 100 90 80 70 60 50
X

S LOCAL SUPPLY ASSY


C6138
PNE-1B1
LF
C6112
R6109
D6115
C6115
C6126
D6126
D6129
C6116
Q6101
R6108
R6105
V+12TRG
GNDA
V+20V
V+12A
V+20V
C6141
GNDA
V-12A
V-20V
C6142
D6110
D6119
D6120
C6109
C6114
C6108
C6113
D6122
D6123
1,V+12TRG
2,V+12T
3,V+12A
4,V-12A
5,GNDA 7,GNDA
6,GNDA 8,GNDA
V-20V
C6146
Q6102
C6145
GNDU
D6103
D6104
D6128
D6127
C6143
C6144
R6104
R6106
D6102
R6111
GNDA
C6140
C6147
R6101
LOCAL SUPPLY ASS'Y
CN6105
J6104
AWX8923
AWX8924
AWX8925
D6107
D6106
D6105
D6109
GNDU
GNDA
DE CHEZ
1,V+6AD
2,GNDV
3,GNDV
4,GNDV
5,V-5.6V
6,V+5.6V
7,GNDiP
8,GNDiP
9,V+iP
10,FANDR
11,FANST
CN6103
AWX
C6103
C6104
C6102
GNDU
D6108
GNDV
V+5AD
CN6106
ATTENTION-
EN CAS REMPLACEMENT DES FUSIBLES IC6108
N'UTILISER QUE LA REFERENCE 49101.6
CHEZ Littelfuse INC.
CN6101
GNDiP
6102
+12V
V+5AD
GNDV
+12V
V+5.6V
+12V
GNDV
C6105
D6111
V-12V
C6111
D6124
V-5.6
C6110
D6121
D6125
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
Y
110 100 90 80 70 60 50 40 30 20 10 0
X

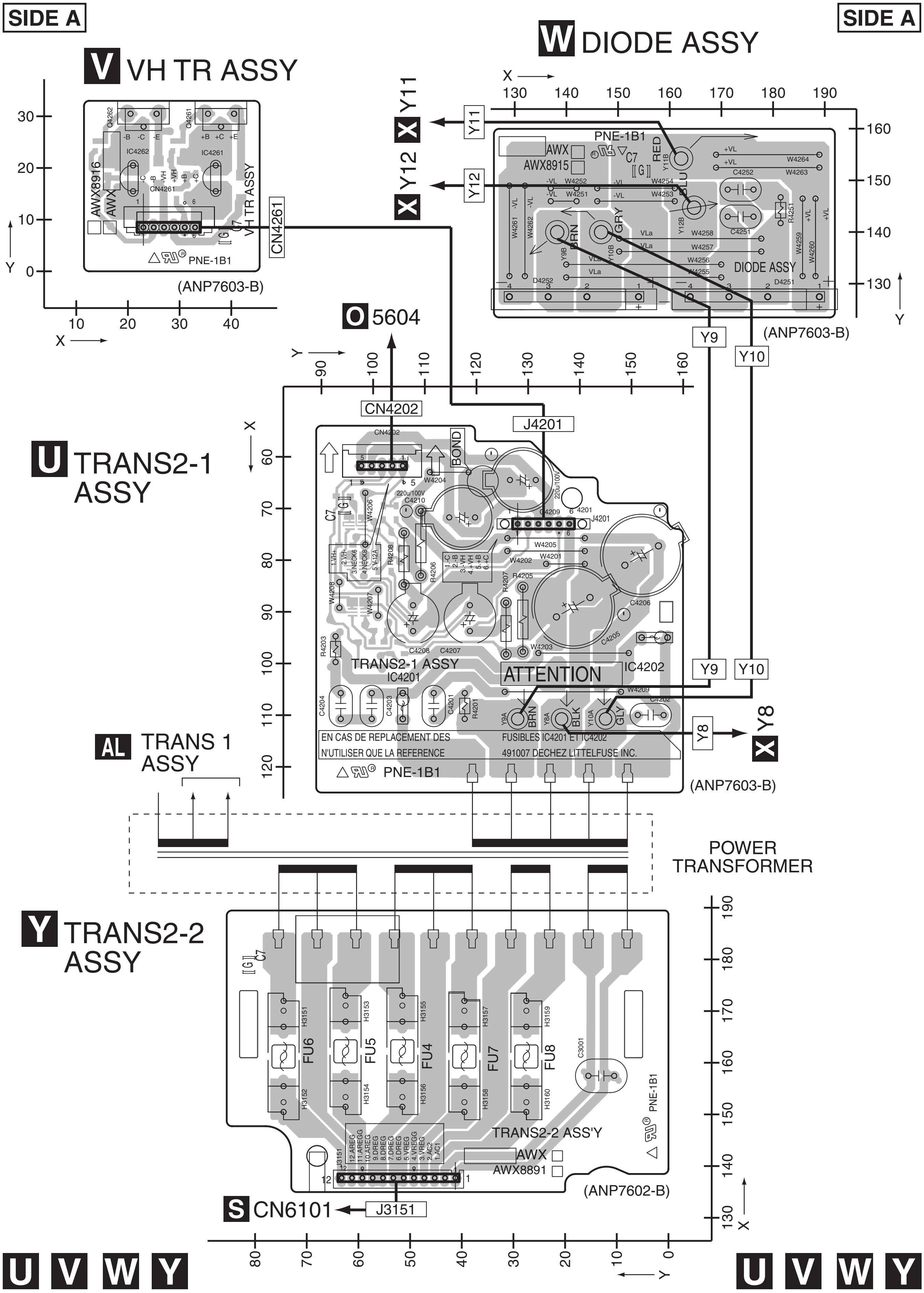
(ANP7604-D)

T DC/DC ASSY


CN4272
R4272
R4273
C4281
D4272
R4274
C4275
C4280
LF
D4273
C4282
DC/DC ASSY
AWX8918
AWX8917
AWX
CN4271
PNE-1B1
90
80
70
60
50
40
Y
50 60 70 80 90 100 110 120 130 140
X

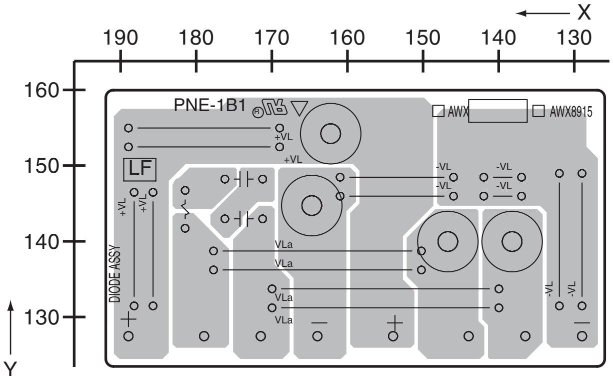
(ANP7603-B)

11.16 TRANS2-1, VH-TR, DIODE and TRANS2-2 ASSYS


SIDE A
SIDE A
V VH TR ASSY
W DIODE ASSY
U TRANS2-1 ASSY
AL TRANS 1 ASSY
Y TRANS2-2 ASSY
POWER TRANSFORMER
O 5604
X Y11
X Y12
X Y8
S CN6101
J3151
CN4261
CN4202
J4201
Y9
Y10
Y11
Y12
Y8
(ANP7603-B)
(ANP7603-B)
(ANP7603-B)
(ANP7602-B)
PNE-1B1
AWX8916
AWX8915
AWX8891
Q4262
Q4261
IC4262
IC4261
IC4201
IC4202
D4252
D4251
C4251
C4252
R4251
W4251
W4252
W4253
W4254
W4255
W4256
W4257
W4258
W4259
W4260
W4261
W4262
W4263
W4264
RED
BLU
BRN
GRY
BLK
GLY
DIODE ASSY
TRANS2-1 ASSY
ATTENTION
BOND
EN CAS DE REPLACEMENT DES FUSIBLES IC4201 ET IC4202
N'UTILISER QUE LA REFERENCE 491007 DECHEZ LITTELFUSE INC.
C4201
C4202
C4203
C4204
C4205
C4206
C4207
C4208
C4209
C4210
R4201
R4203
R4205
R4206
R4207
R4208
W4201
W4202
W4203
W4204
W4205
W4206
W4207
W4208
W4209
FU4
FU5
FU6
FU7
FU8
H3151
H3152
H3153
H3154
H3155
H3156
H3157
H3158
H3159
H3160
C3001
TRANS2-2 ASS'Y
12.AREG
11.AREG
10.AREG
9.DREG
8.DREG
7.DREG
6.DREG
5.VREG
4.VREG
3.VREG
2.AC2
1.AC1
X
Y

SIDE B

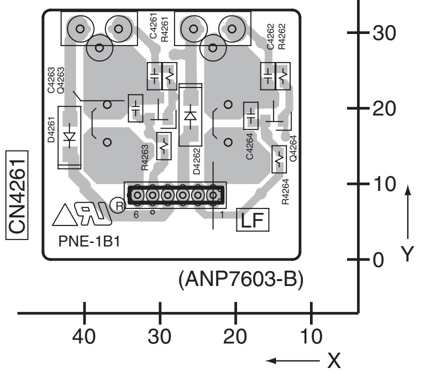
W DIODE ASSY


X
190
180
170
160
150
140
130
160
150
140
130
Y
PNE-1B1
AWX
AWX8915
LF
+VL
-VL
VLa
DIODE ASSY

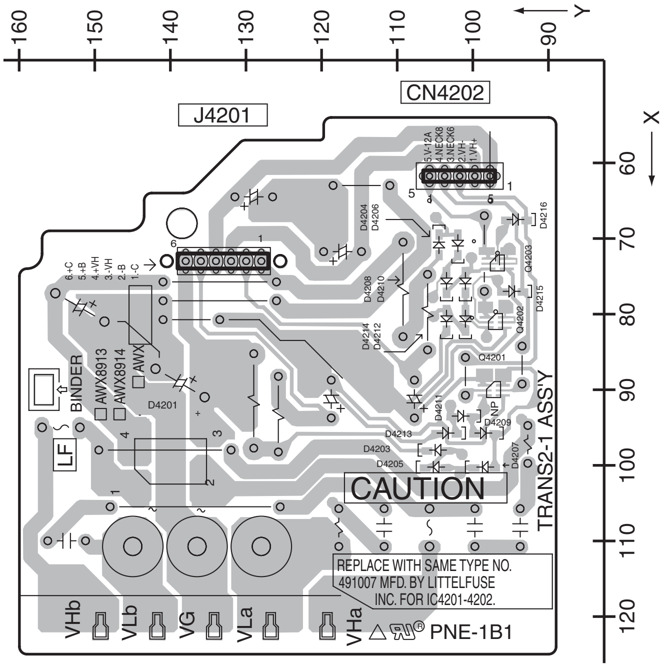
(ANP7603-B)

SIDE B

V VH TR ASSY

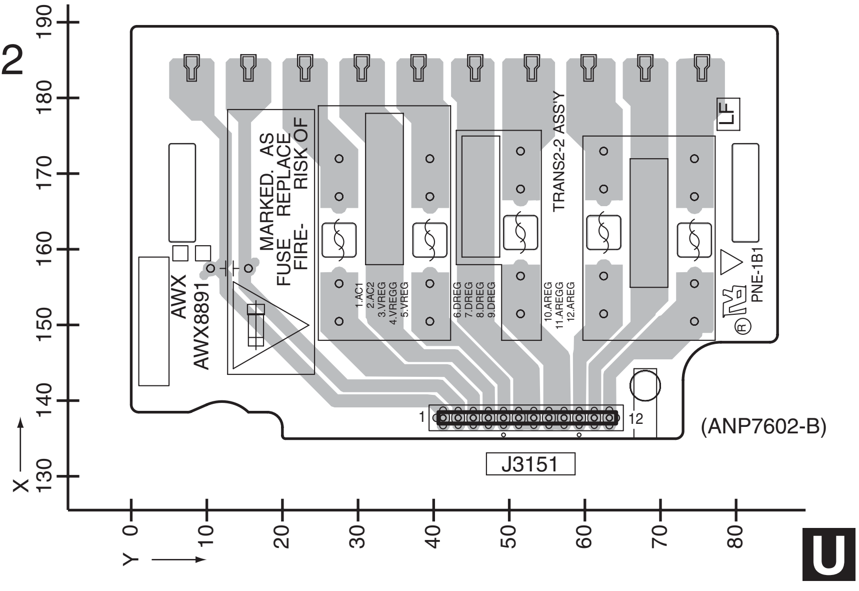

C4261
R4261
C4262
R4262
C4263
Q4263
D4261
R4263
D4262
C4264
Q4264
R4264
CN4261
PNE-1B1
LF
6
1
30
20
10
0
Y
40
30
20
10
X
(ANP7603-B)

U TRANS2-1 ASSY


160
150
140
130
120
110
100
90
Y
X
60
70
80
90
100
110
120
J4201
CN4202
5.V+12A
4.NECK6
3.NECK6
2.VH-
1.VH+
6.+C
5.+B
4.+VH
3.-VH
2.-B
1.-C
D4204
D4206
D4216
Q4203
D4208
D4210
D4215
D4214
D4212
Q4202
Q4201
D4211
D4209
D4213
D4203
D4205
D4207
D4201
BINDER
AWX8913
AWX8914
AWX
LF
CAUTION
TRANS2-1 ASS'Y
REPLACE WITH SAME TYPE NO. 491007 MFD. BY LITTELFUSE INC. FOR IC4201-4202.
VHb
VLb
VG
VLa
VHa
PNE-1B1

(ANP7603-B)

Y TRANS2-2 ASSY

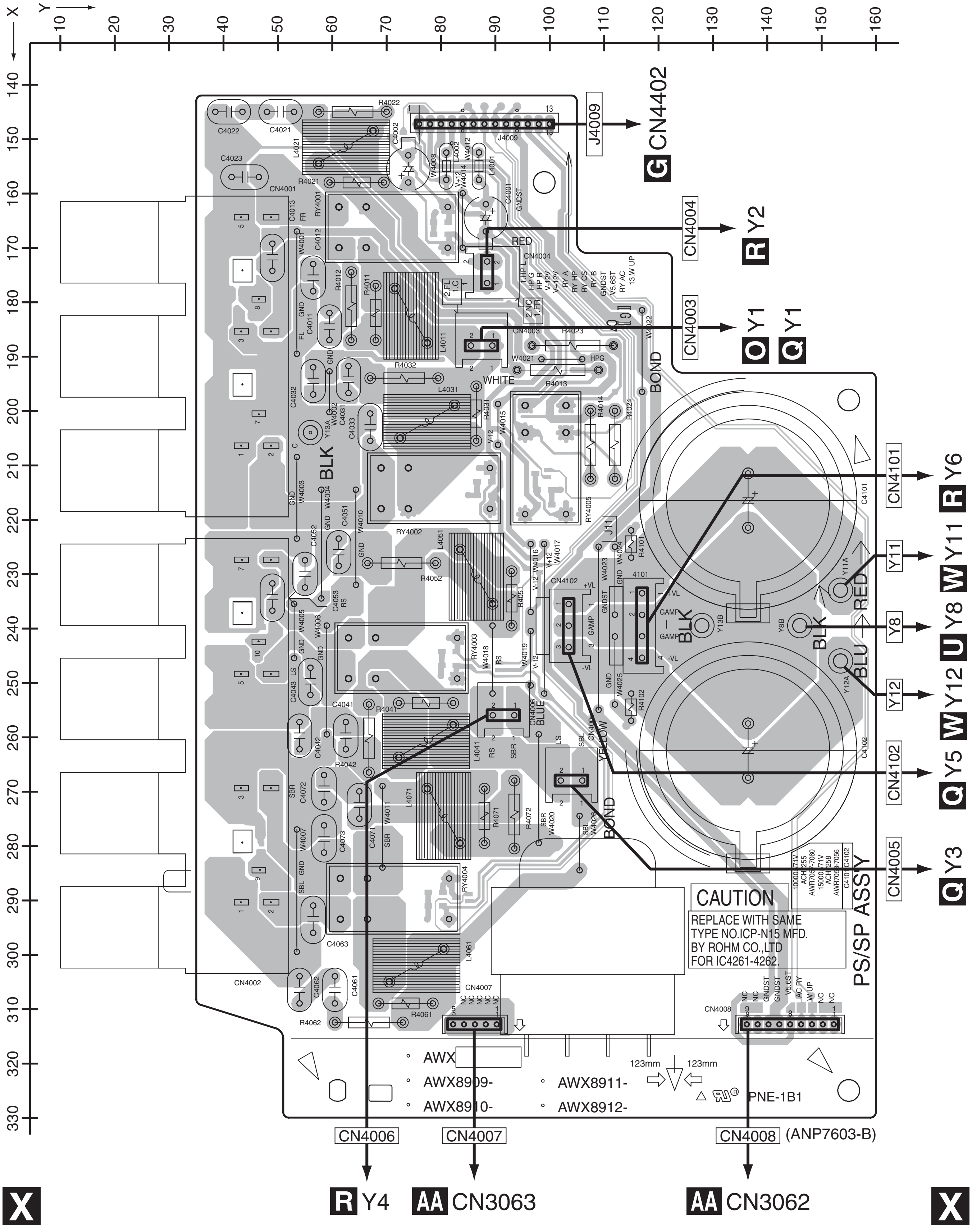

190
180
170
160
150
140
130
X
0
10
20
30
40
50
60
70
80
Y
FIRE- RISK OF
FUSE REPLACE
MARKED. AS
AWX
AWX8891
1.AC1
2.AC2
3.VREG
4.VREG
5.VREG
6.DREG
7.DREG
8.DREG
9.DREG
10.AREG
11.AREG
12.AREG
TRANS2-2 ASS'Y
LF
PNE-1B1
1
12
J3151
(ANP7602-B)

11.17 SP/PS ASSY

SIDE A **SIDE A**

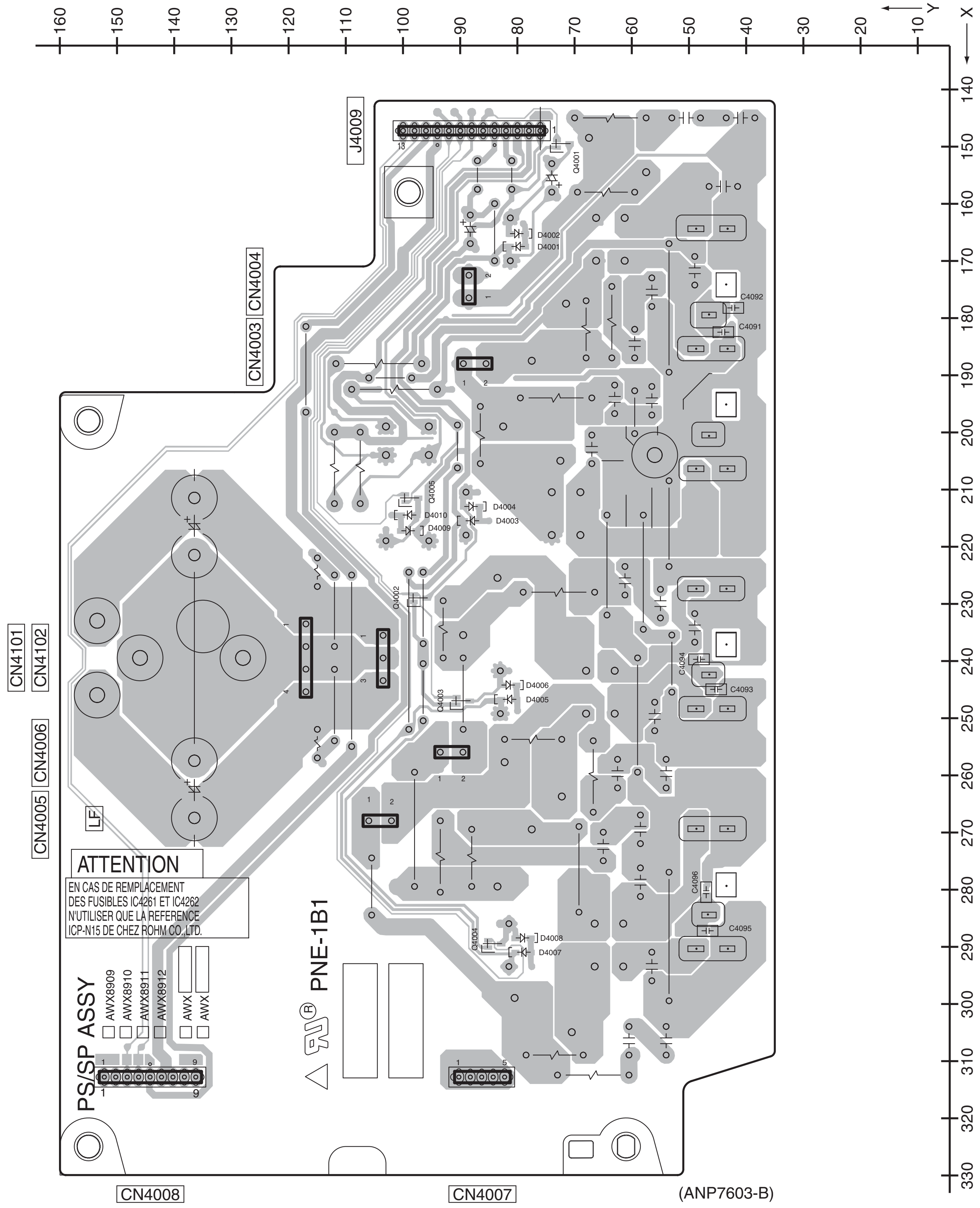
A

X SP/PS ASSY


X
Y
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
J4009
G CN4402
CN4004
R Y2
CN4003
O Y1
Q Y1
CN4101
R Y6
Y11
W Y11
Y8
U Y8
Y12
W Y12
CN4102
Q Y5
CN4005
Q Y3
CN4006
CN4007
CN4008
(ANP7603-B)
R Y4
AA CN3063
AA CN3062
RED
WHITE
BLK
BOND
RED
BLK
BLU
BLUE
YELLOW
BLK
BOND
CAUTION
REPLACE WITH SAME TYPE NO.ICP-N15 MFD. BY ROHM CO.,LTD FOR IC4261-4262.
PS/SP ASSY
AWX
AWX8909-
AWX8910-
AWX8911-
AWX8912-
123mm
123mm
PNE-1B1
C4101 C4102
AWR7059-7056
ACH1258
15000/71V
AWR7059-7060
ACH1255
10000/71V
1.HP L
HP G
HP R
V-12V
V+12V
RY HP
RY A
RY CS
RY B
GNDST
V5.6ST
RY AC
13.W UP
NC
NC
GNDST
GNDST
V5.6ST
AC RY
W UP
NC
NC
C4022
C4021
R4022
C4002
L4021
C4023
R4021
CN4001
RY4001
C4013
C4012
R4012
R4011
L4011
C4011
R4032
L4031
C4032
C4031
C4033
RY4002
R4023
R4013
R4014
R4024
RY4005
C4052
C4051
R4052
L4051
R4051
C4053
RY4003
C4043
C4041
R4041
C4042
R4042
L4041
C4072
C4073
C4071
L4071
R4071
R4072
RY4004
C4063
L4061
C4062
C4061
R4061
R4062
CN4002
R4101
R4102
4101
J11
+VL
-VL
GAMP
GNDST
GND
SBR
SBL
LS
RS
FL
FR
HPG

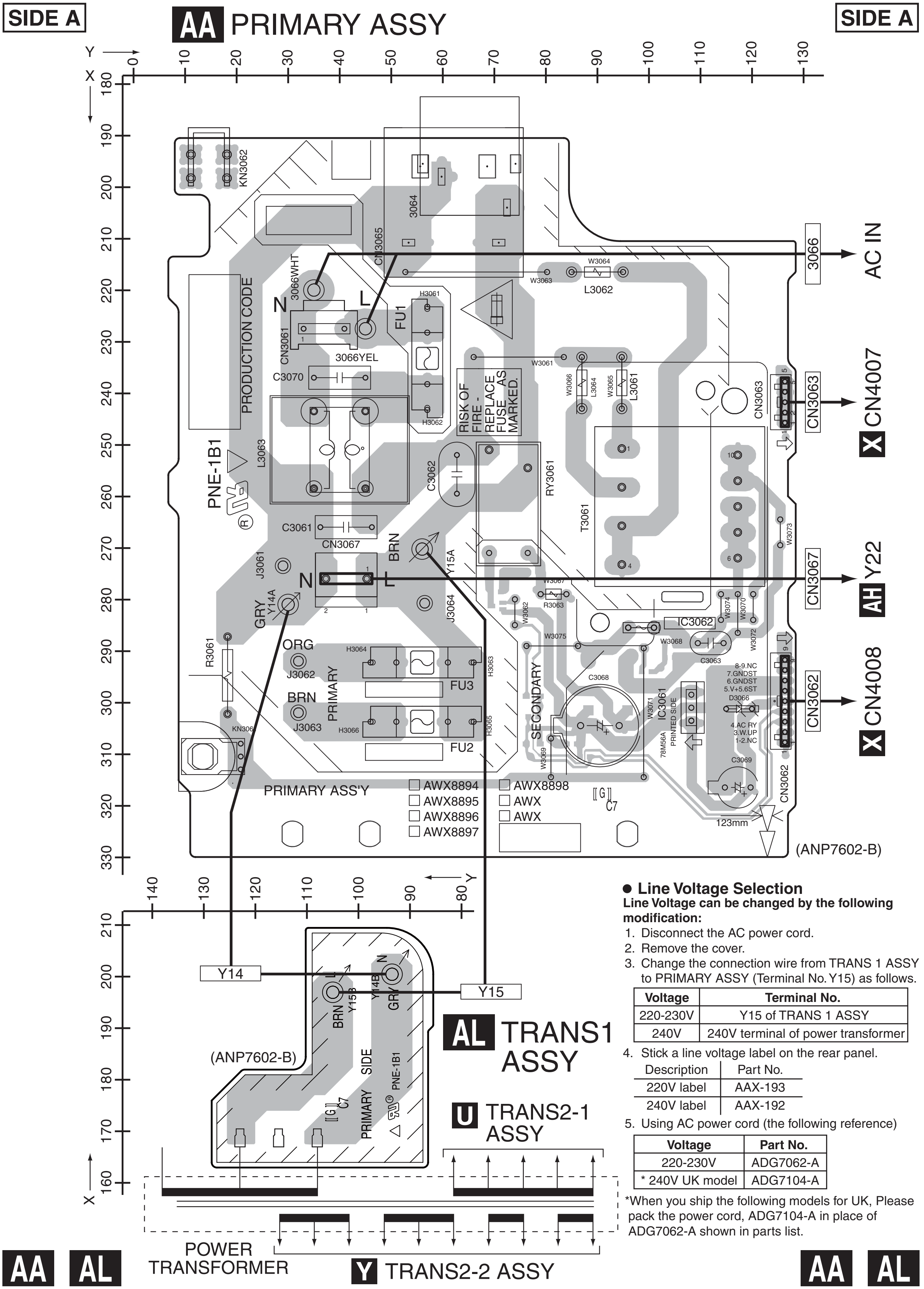
SIDE B **SIDE B**

X SP/PS ASSY


160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
X
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
J4009
CN4004
CN4003
CN4101
CN4102
CN4006
CN4005
LF
Q4001
D4002
D4001
C4092
C4091
Q4005
D4010
D4009
D4004
D4003
Q4002
D4006
D4005
Q4003
C4094
C4093
C4096
C4095
Q4004
D4008
D4007
ATTENTION
EN CAS DE REMPLACEMENT
DES FUSIBLES IC4261 ET IC4262
N'UTILISER QUE LA REFERENCE
ICP-N15 DE CHEZ ROHM CO.,LTD.
PS/SP ASSY
AWX8909
AWX8910
AWX8911
AWX8912
AWX
AWX
PNE-1B1
CN4008
CN4007

(ANP7603-B)

11.18 TRANS1 and PRIMARY ASSYS


SIDE A
AA PRIMARY ASSY
SIDE A
3066
AC IN
CN3063
X CN4007
CN3067
AH Y22
CN3062
X CN4008
KN3062
CN3065
3064
3066WHT
N
L
FU1
H3061
CN3061
3066YEL
C3070
PRODUCTION CODE
L3063
PNE-1B1
H3062
RISK OF FIRE - REPLACE FUSE AS MARKED.
C3062
RY3061
T3061
W3064
W3063
L3062
W3061
W3066
L3064
W3065
L3061
CN3063
C3061
CN3067
BRN
Y15A
J3061
GRY
Y14A
J3064
W3067
R3063
W3062
IC3062
W3074
W3070
W3072
W3068
C3063
W3075
R3061
ORG
J3062
BRN
J3063
PRIMARY
H3064
FU3
H3063
SECONDARY
C3068
W3071
IC3061
PRINTED SIDE
78M56A
8-9.NC
7.GNDST
6.GNDST
5.V+5.6ST
D3066
4.AC RY
3.W.UP
1-2.NC
KN306
H3066
FU2
H3065
W3069
C3069
CN3062
PRIMARY ASS'Y
☐ AWX8894
☐ AWX8895
☐ AWX8896
☐ AWX8897
☐ AWX8898
☐ AWX
☐ AWX
[G] C7
123mm
(ANP7602-B)
Y14
Y15
Y14B
N
GRY
L
BRN
Y15B
(ANP7602-B)
SIDE
PRIMARY
PNE-1B1
[G] C7
AL TRANS1 ASSY
U TRANS2-1 ASSY
POWER TRANSFORMER
Y TRANS2-2 ASSY
AA AL
AA AL

● Line Voltage Selection

Line Voltage can be changed by the following modification:

1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY to PRIMARY ASSY (Terminal No. Y15) as follows.

Voltage	Terminal No.
220-230V	Y15 of TRANS 1 ASSY
240V	240V terminal of power transformer

4. Stick a line voltage label on the rear panel.

Description	Part No.
220V label	AAX-193
240V label	AAX-192

5. Using AC power cord (the following reference)

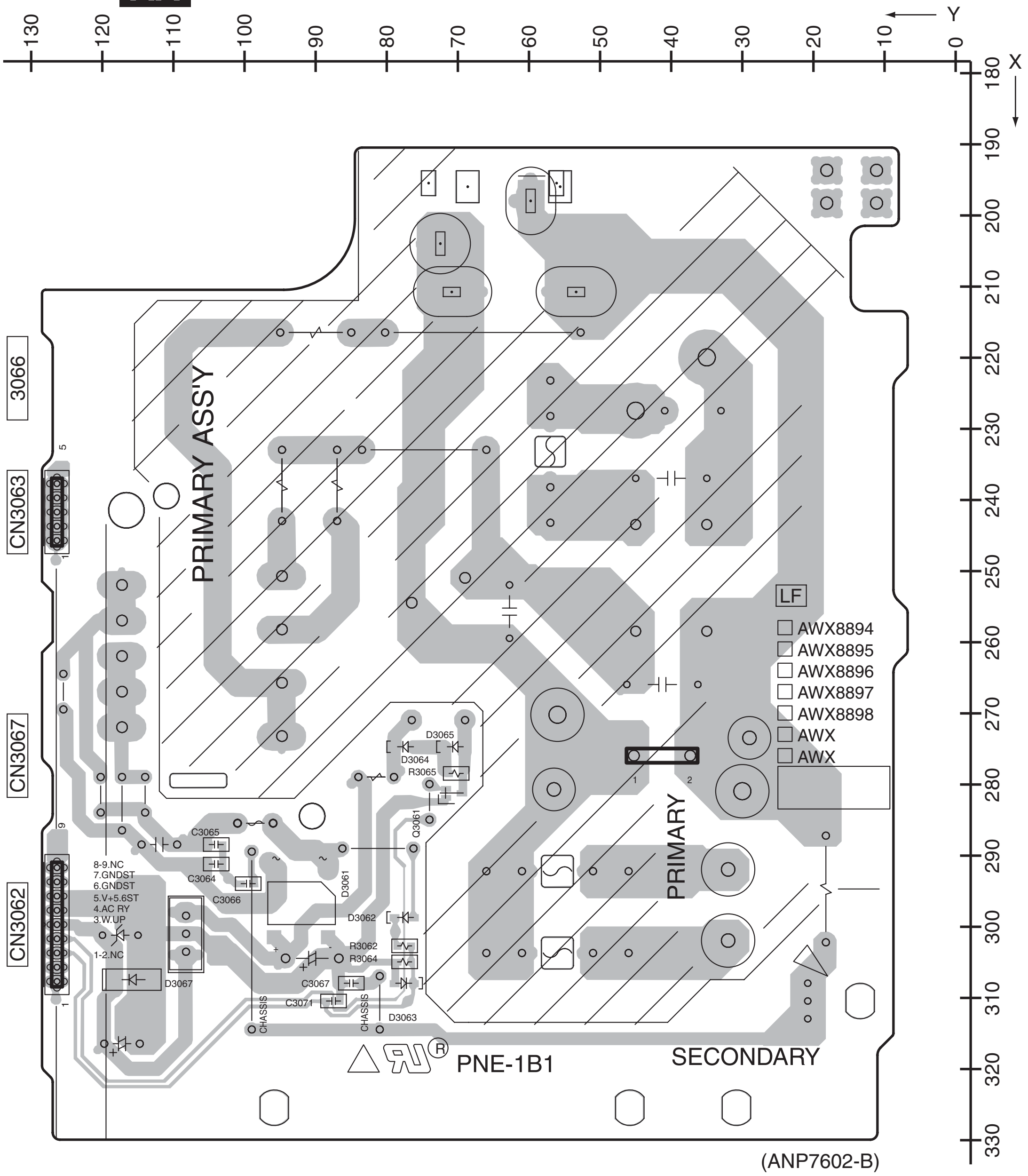
Voltage	Part No.
220-230V	ADG7062-A
* 240V UK model	ADG7104-A

*When you ship the following models for UK, Please pack the power cord, ADG7104-A in place of ADG7062-A shown in parts list.

SIDE B

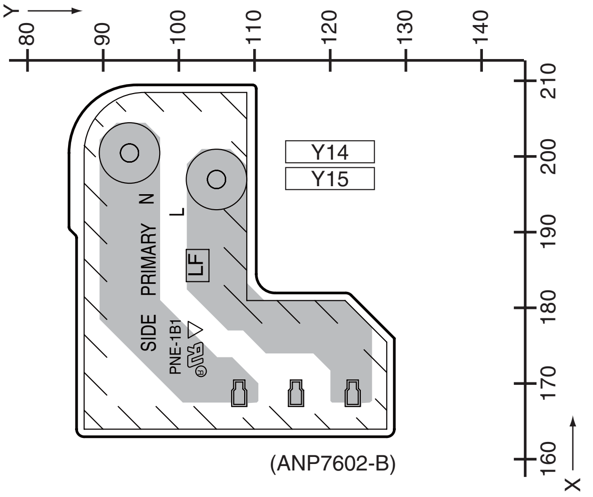
AA PRIMARY ASSY

SIDE B


130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
X
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
3066
CN3063
CN3067
CN3062
PRIMARY ASS'Y
LF
☐ AWX8894
☐ AWX8895
☐ AWX8896
☐ AWX8897
☐ AWX8898
☐ AWX
☐ AWX
D3065
D3064
R3065
Q3061
C3065
C3064
C3066
D3061
D3062
R3062
R3064
C3067
C3071
D3063
D3067
CHASSIS
CHASSIS
8-9.NC
7.GNDST
6.GNDST
5.V+5.6ST
4.AC RY
3.W.UP
1-2.NC
PRIMARY
SECONDARY
PNE-1B1

(ANP7602-B)

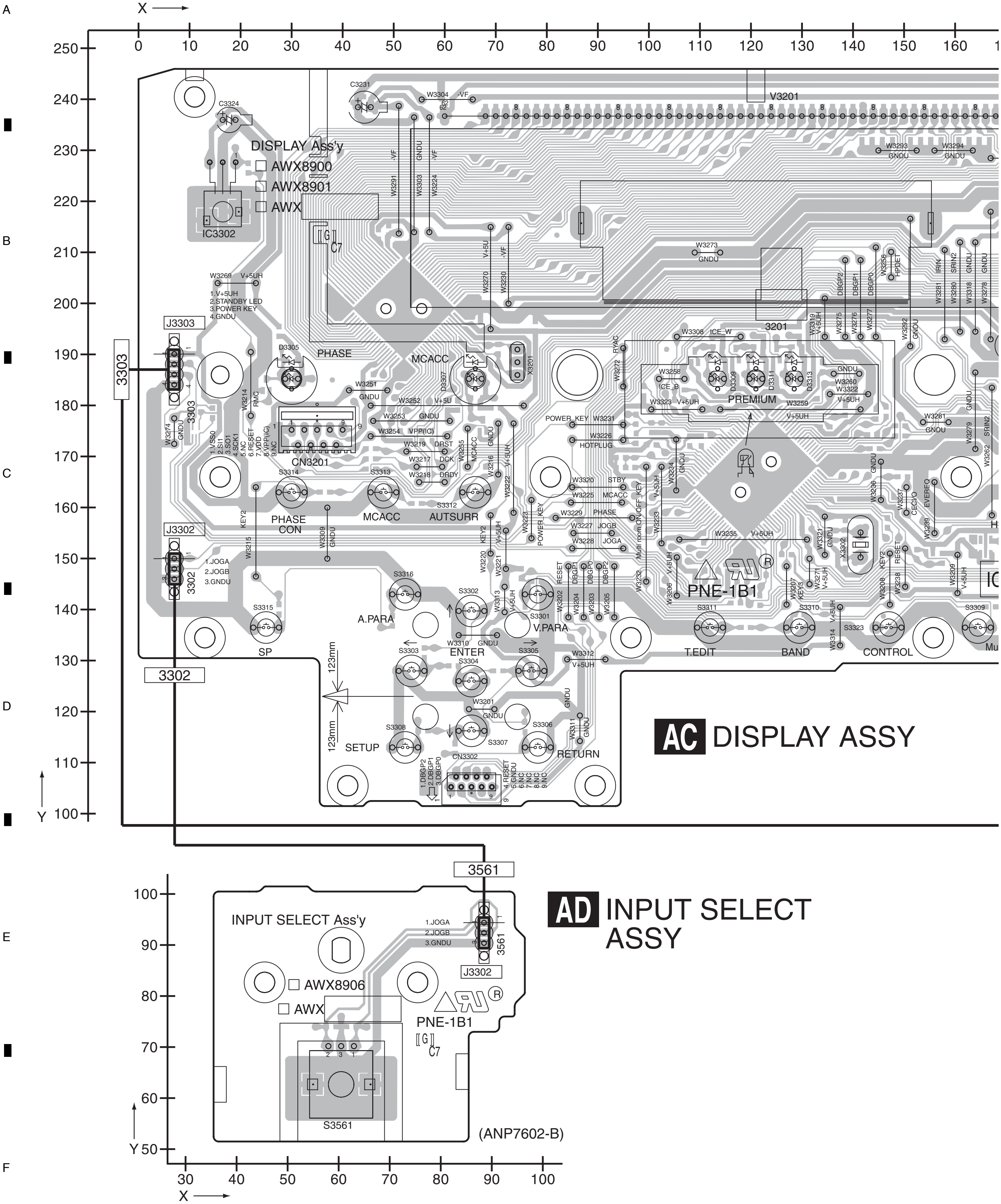
AL TRANS1 ASSY


Y
80
90
100
110
120
130
140
210
200
190
180
170
160
X
Y14
Y15
N
L
PRIMARY
SIDE
LF
PNE-1B1
(ANP7602-B)

AA **AL** **AA** **AL**

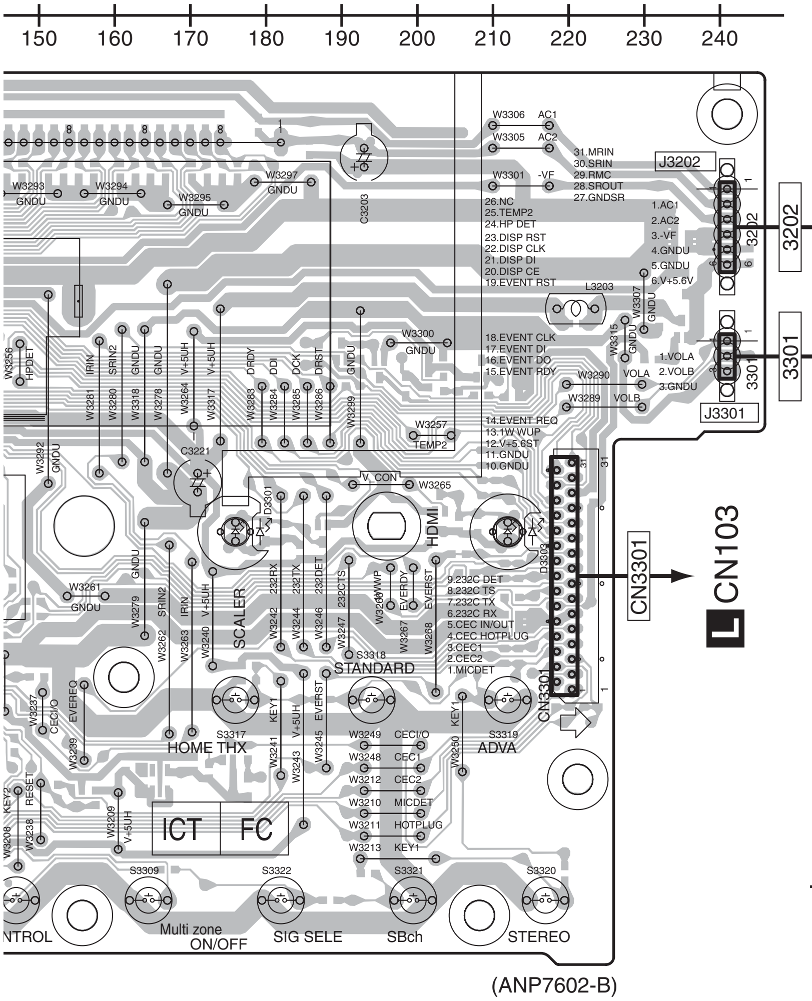
11.19 POWER SW, VOLUME, DISPLAY and INPUT SELECT ASSYS

SIDE A


A
B
C
D
E
F
X →
Y
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
DISPLAY Ass'y
☐ AWX8900
☒ AWX8901
☐ AWX
IC3302
C3324
C3231
V3201
[[G]] C7
W3304 -VF
W3291 -VF
W3303 GNDU
W3224 -VF
W3270 V+5U
W3230 -VF
W3273 GNDU
W3293 GNDU
W3294 GNDU
W3269 V+5UH
1.V+5UH
2.STANDBY LED
3.POWER KEY
4.GNDU
J3303
3303
D3305
PHASE
MCACC
D3307
X3201
3201
W3308 ICE_W
W3272 RYAC
W3258 ICE_B
W3323 V+5UH
D3309
D3311
D3313
PREMIUM
W3259
W3260
W3322
V+5UH
W3231 POWER_KEY
W3226 HOTPLUG
W3251 GNDU
W3252 V+5U
W3253 GNDU
W3254 VPP(IC)
W3219 DRST
W3217 DCK
W3218 DRDY
W3255 MCACC
W3216 GNDU
W3222 V+5UH
W3214 RMC
W3274 GNDU
1.VSS0
2.SI1
3.SO1
4.SCK1
5.NC
6.RESET
7.VDD
8.VPP(IC)
9.NC
CN3201
S3314
S3313
S3312
PHASE CON
MCACC
AUTSURR
W3320 STBY
W3225 MCACC
W3229 PHASE
W3227 JOGB
W3228 JOGA
W3235 V+5UH
W3233
W3234 GNDU
W3223 POWER_KEY
W3220 KEY2
W3221 V+5UH
J3302
3302
1.JOGA
2.JOGB
3.GNDU
W3215 KEY2
W3309 GNDU
S3315
SP
S3316
A.PARA
S3302
S3301
W3313 V+5UH
V.PARA
W3202 RESET
W3204 DBGP1
W3203 DBGP0
W3205 DBGP2
W3232 Multi room ON/OFF_KEY
W3206 V+5UH
PNE-1B1
S3311
T.EDIT
S3310
BAND
W3207 KEY3
W3271 V+5UH
W3321 GNDU
X3302
W3314 V+5UH
S3323
CONTROL
S3309
W3208 KEY2
W3238 RESET
W3209 V+5UH
W3261 GNDU
W3279 GNDU
W3262 SRIN2
W3236 GNDU
W3237 CEC/O
W3239 EVEREQ
W3319 V+5UH
W3275 DBGP2
W3276 DBGP1
W3277 DBGP0
W3256 HPDET
W3292 GNDU
W3281 IRIN
W3280 SRIN2
W3318 GNDU
W3278 GNDU
W3310 GNDU
ENTER
S3303
S3304
S3305
W3312 V+5UH
123mm
123mm
W3201 GNDU
S3308
SETUP
S3307
S3306
W3311 GNDU
RETURN
CN3302
1.DBGP2
2.DBGP1
3.DBGP0
4.RESET
5.GNDU
6.NC
7.NC
8.NC
9.NC
AC DISPLAY ASSY
3561
AD INPUT SELECT ASSY
INPUT SELECT Ass'y
1.JOGA
2.JOGB
3.GNDU
J3302
3561
☐ AWX8906
☐ AWX
PNE-1B1
[[G]] C7
S3561
(ANP7602-B)
100
90
80
70
60
Y 50
30
40
50
60
70
80
90
100
X →

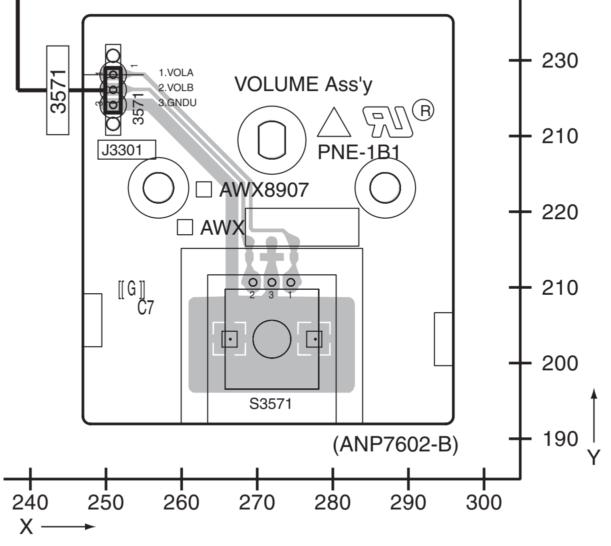
AC **AD**

SIDE A


150
160
170
180
190
200
210
220
230
240
W3306 AC1
W3305 AC2
31.MRIN
30.SRIN
29.RMC
28.SROUT
27.GNDSR
W3301 -VF
26.NC
25.TEMP2
24.HP DET
23.DISP RST
22.DISP CLK
21.DISP DI
20.DISP CE
19.EVENT RST
J3202
1.AC1
2.AC2
3.-VF
4.GNDU
5.GNDU
6.V+5.6V
3202
W3293 GNDU
W3294 GNDU
W3295 GNDU
W3297 GNDU
C3203
L3203
W3307 GNDU
W3300 GNDU
18.EVENT CLK
17.EVENT DI
16.EVENT DO
15.EVENT RDY
W3315 GNDU
1.VOLA
2.VOLB
3.GNDU
W3290 VOLA
W3289 VOLB
3301
J3301
W3256 HPDET
IRIN
SRIN2
GNDU
GNDU
V+5UH
V+5UH
DRDY
DDI
DCK
DRST
GNDU
W3281
W3280
W3318
W3278
W3264
W3317
W3283
W3284
W3285
W3286
W3299
14.EVENT REQ
13.1W WUP
12.V+5.6ST
11.GNDU
10.GNDU
W3257 TEMP2
W3292 GNDU
C3221
V_CON
W3265
D3301
HDMI
D3303
W3261 GNDU
GNDU
W3279
SRIN2
IRIN
V+5UH
SCALER
232RX
232TX
232DET
232CTS
WWP
DVERDY
EVERST
9.232C DET
8.232C TS
7.232C TX
6.232C RX
5.CEC IN/OUT
4.CEC HOTPLUG
3.CEC1
2.CEC2
1.MICDET
W3262
W3263
W3240
W3242
W3244
W3246
W3247
W3267
W3268
S3318
STANDARD
CN3301
W3237 CECI/O
EVEREQ
KEY1
EVERST
KEY1
S3317
HOME THX
V+5UH
W3249 CECI/O
W3248 CEC1
W3212 CEC2
W3210 MICDET
W3211 HOTPLUG
W3213 KEY1
S3319
ADVA
W3239
W3241
W3243
W3245
W3250
KEY2
RESET
W3209
V+5UH
W3208
W3238
ICT
FC
S3309
S3322
S3321
S3320
NTROL
Multi zone ON/OFF
SIG SELE
SBch
STEREO
S CN6103
CN3301
L CN103

(ANP7602-B)

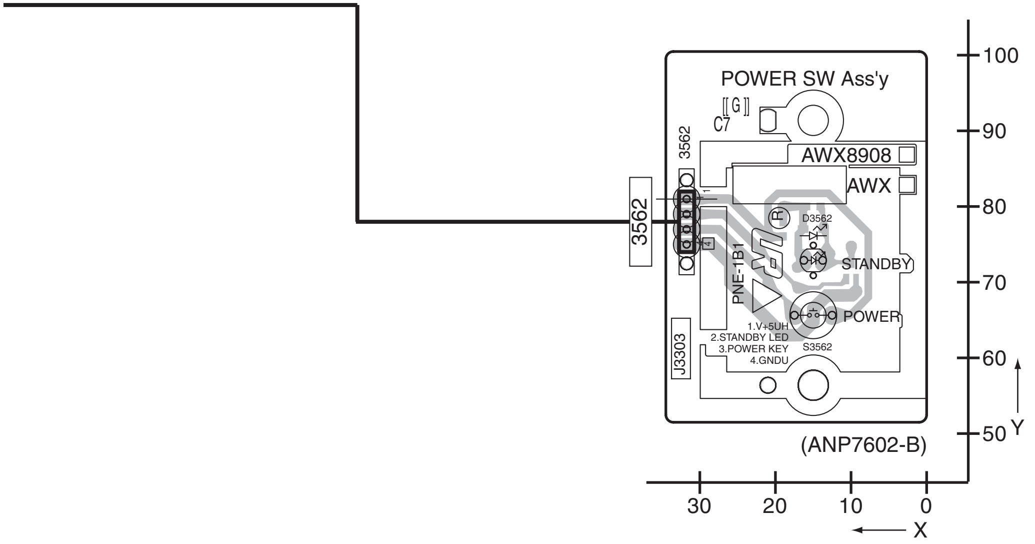
AB VOLUME ASSY


3571
J3301
1.VOLA
2.VOLB
3.GNDU
3571
VOLUME Ass'y
PNE-1B1
☐ AWX8907
☐ AWX
[[G]]
C7
S3571
230
210
220
210
200
190
Y
240
250
260
270
280
290
300
X

(ANP7602-B)

SY

Z POWER SW ASSY


POWER SW Ass'y
[[G]]
C7
3562
AWX8908 ☐
AWX ☐
3562
D3562
STANDBY
PNE-1B1
POWER
1.V+5UH
2.STANDBY LED
3.POWER KEY
4.GNDU
S3562
J3303
100
90
80
70
60
50
Y
30
20
10
0
X

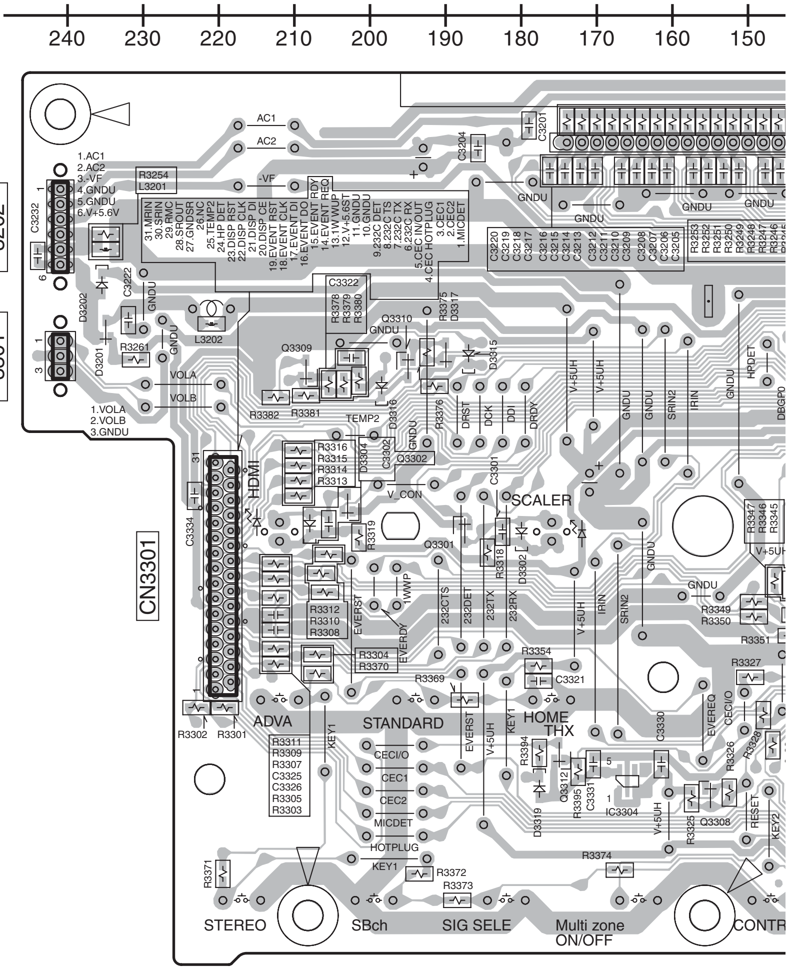
(ANP7602-B)

Z AB AC

SIDE B

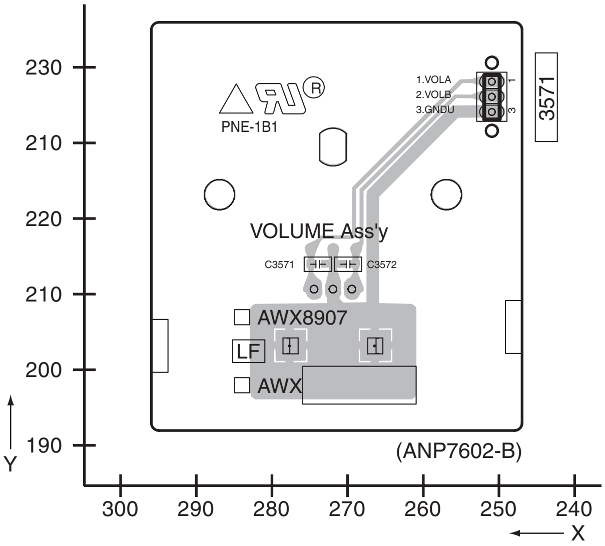
A

AC DISPLAY ASSY


240 230 220 210 200 190 180 170 160 150
3202
3301
CN3301
1.AC1
2.AC2
3.-VF
4.GNDU
5.GNDU
6.V+5.6V
1.VOLA
2.VOLB
3.GNDU
HDMI
SCALER
ADVA
STANDARD
HOME THX
STEREO
SBch
SIG SELE
Multi zone ON/OFF
CONTR
GNDU
V+5UH
IC3304

B

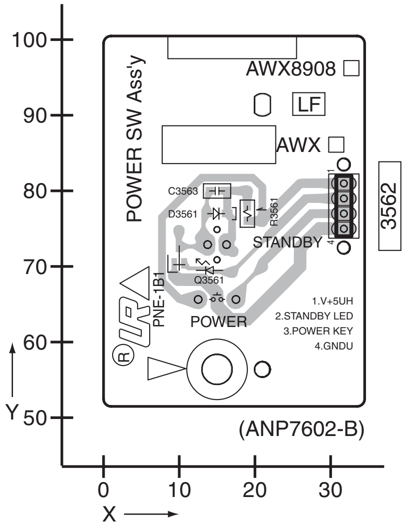
AB VOLUME ASSY


230
210
220
210
200
190
Y
300 290 280 270 260 250 240
X
PNE-1B1
1.VOLA
2.VOLB
3.GNDU
3571
VOLUME Ass'y
C3571
C3572
☐ AWX8907
LF
☐ AWX
(ANP7602-B)

C

D

Z POWER SW ASSY

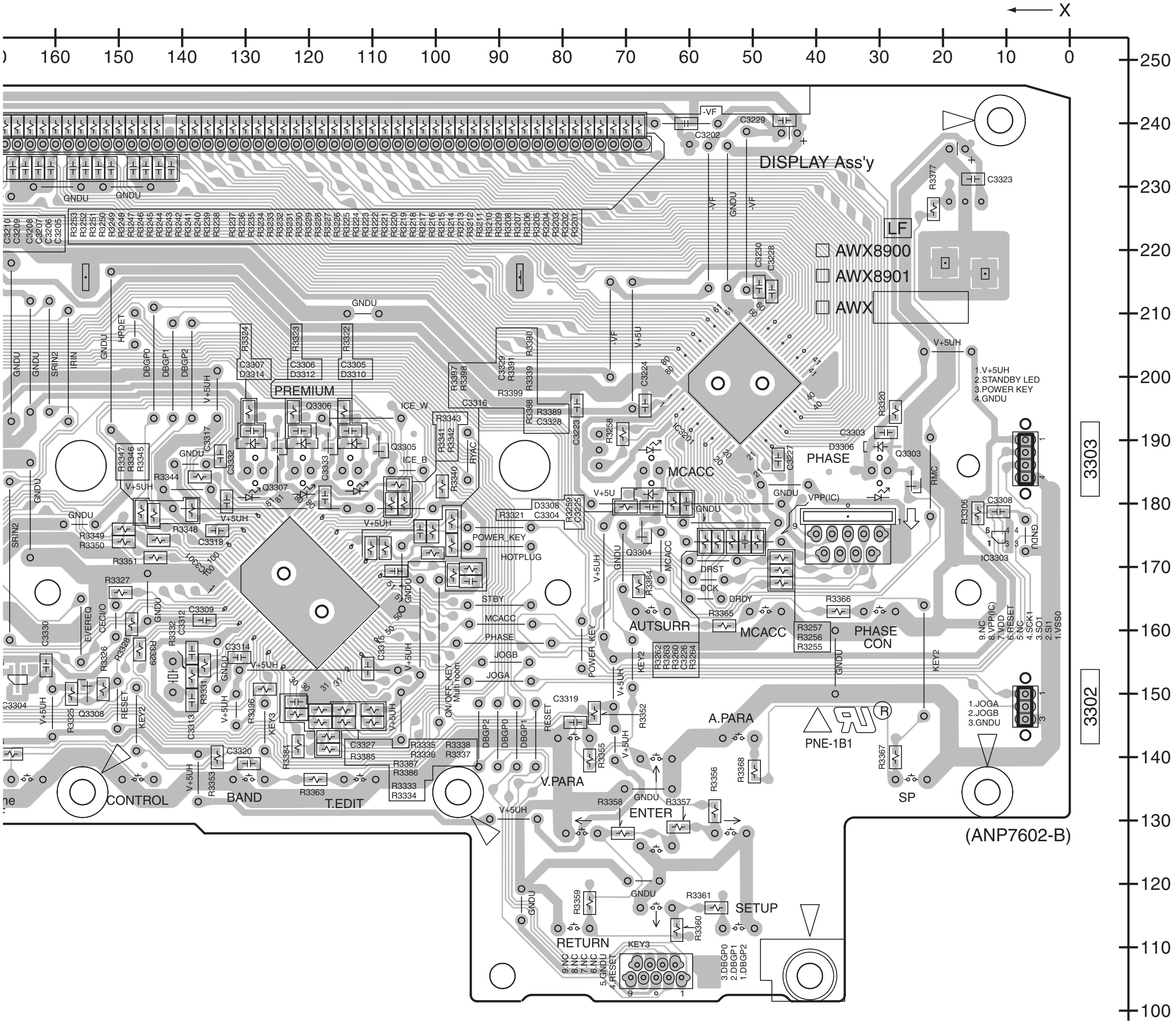

100
90
80
70
60
50
Y
0 10 20 30
X
POWER SW Ass'y
AWX8908 ☐
LF
AWX ☐
C3563
D3561
R3561
3562
STANDBY
Q3561
PNE-1B1
POWER
1.V+5UH
2.STANDBY LED
3.POWER KEY
4.GNDU
(ANP7602-B)

E

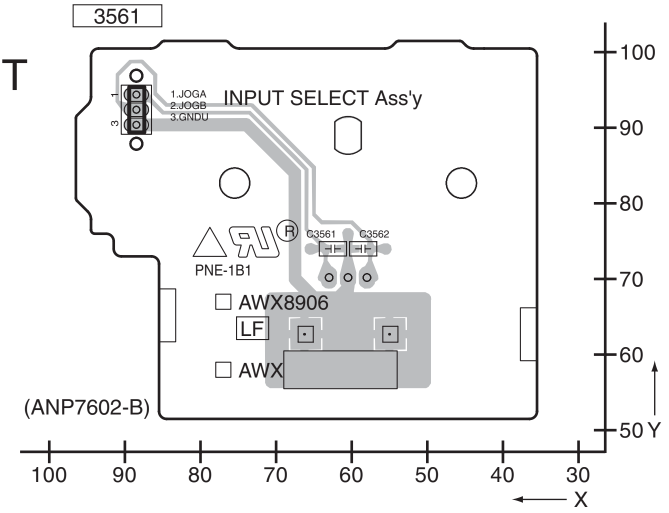
F

Z AB AC

SIDE B


X
Y
DISPLAY Ass'y
LF
AWX8900
AWX8901
AWX
PREMIUM
MCACC
PHASE
AUTSURR
PHASE CON
A.PARA
V.PARA
ENTER
SETUP
RETURN
SP
CONTROL
BAND
T.EDIT
PNE-1B1
(ANP7602-B)
3303
3302
1.V+5UH
2.STANDBY LED
3.POWER KEY
4.GNDU
1.JOGA
2.JOGB
3.GNDU
9.NC
8.VPP(IC)
7.VDD
6.RESET
5.NC
4.SCK1
3.SO1
2.SI1
1.VSS0
KEY3
3.DBGP0
2.DBGP1
1.DBGP2
IC3303
IC3301
IC3201
POWER_KEY
HOTPLUG
STBY
ON/OFF_KEY
Multi room
GNDU
V+5UH
V+5U
-VF

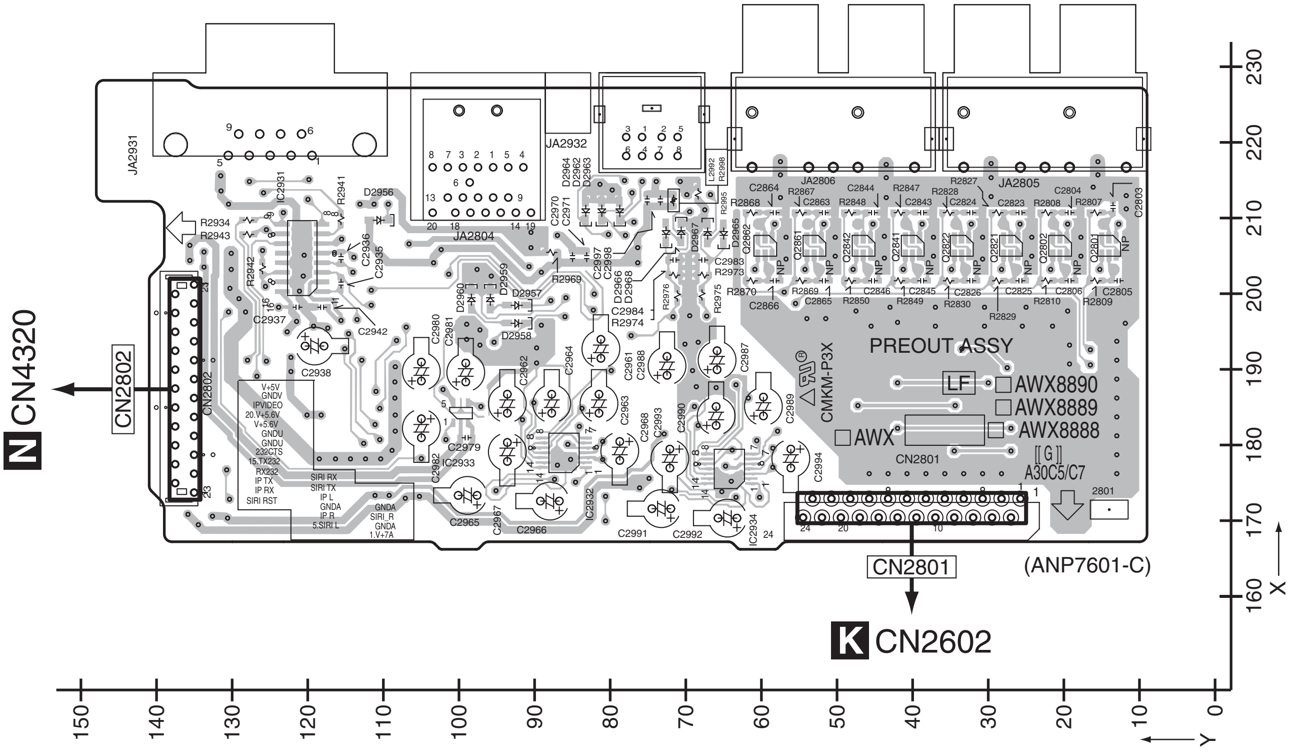
AD INPUT SELECT ASSY


3561
INPUT SELECT Ass'y
1.JOGA
2.JOGB
3.GNDU
C3561
C3562
PNE-1B1
AWX8906
LF
AWX
(ANP7602-B)
X
Y

11.20 PREOUT & CONTROL ASSY

SIDE A **SIDE A**

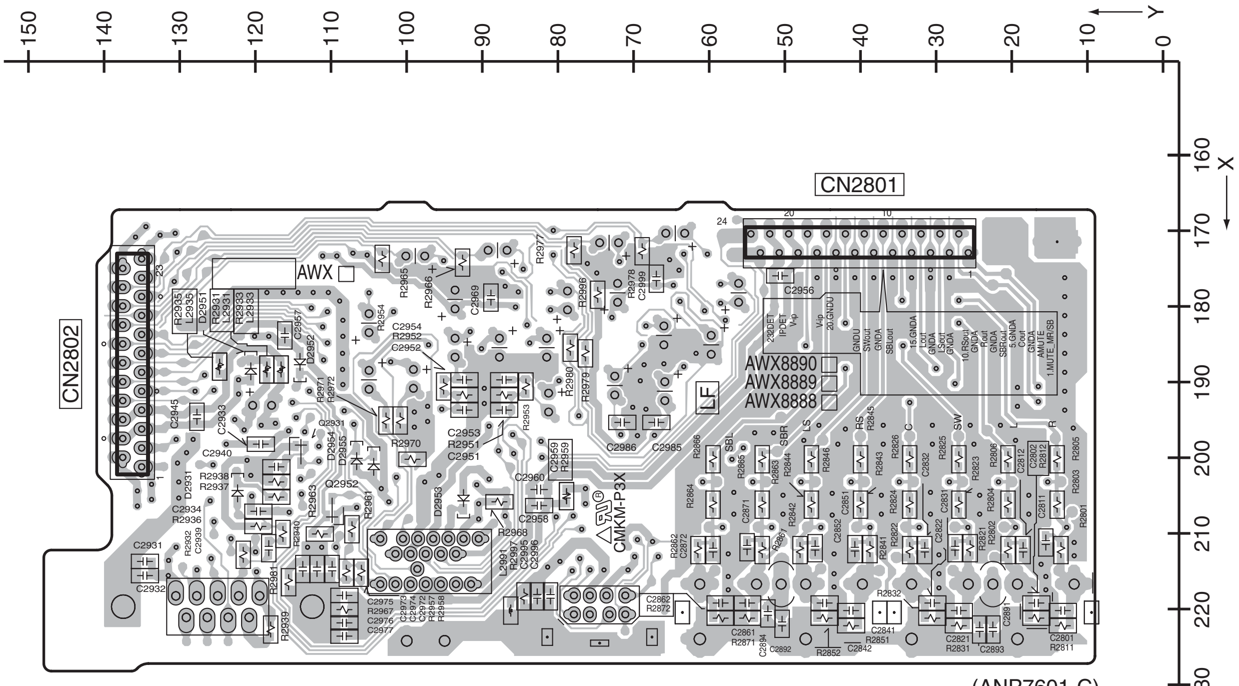
AE PREOUT & CONTROL ASSY



JA2931
JA2932
JA2804
JA2806
JA2805
CN2802
N CN4320
CN2801
K CN2602
PREOUT ASSY
CMKM-P3X
LF
AWX8890
AWX8889
AWX8888
AWX
[[G]]
A30C5/C7
IC2931
IC2932
IC2933
IC2934
(ANP7601-C)
X
Y
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
160 170 180 190 200 210 220 230

SIDE B **SIDE B**

AE PREOUT & CONTROL ASSY

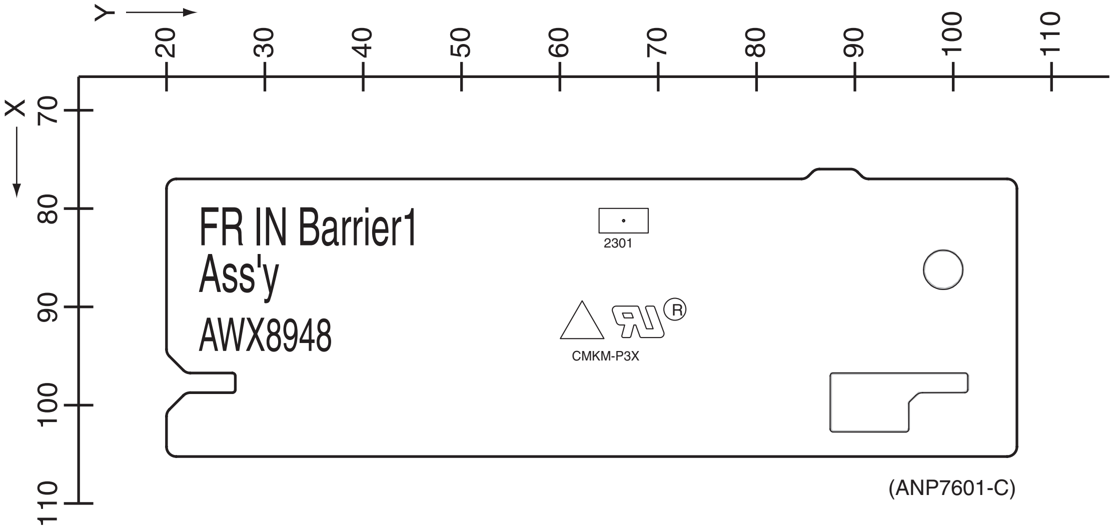


CN2801
CN2802
AWX
AWX8890
AWX8889
AWX8888
LF
CMKM-P3X
(ANP7601-C)
X
Y
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
160 170 180 190 200 210 220 230

11.21 FR BARRIER 1 ASSY

SIDE A **SIDE A**

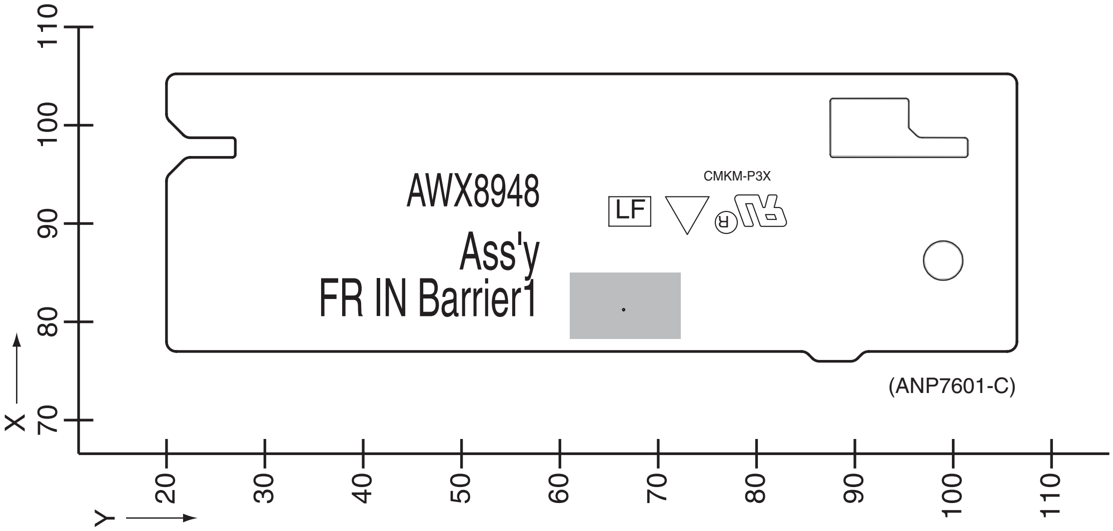
AF FR IN BARRIER 1 ASSY



Y
X
20
30
40
50
60
70
80
90
100
110
70
80
90
100
110
FR IN Barrier1
Ass'y
AWX8948
2301
CMKM-P3X
(ANP7601-C)

SIDE B **SIDE B**

AF FR IN BARRIER 1 ASSY

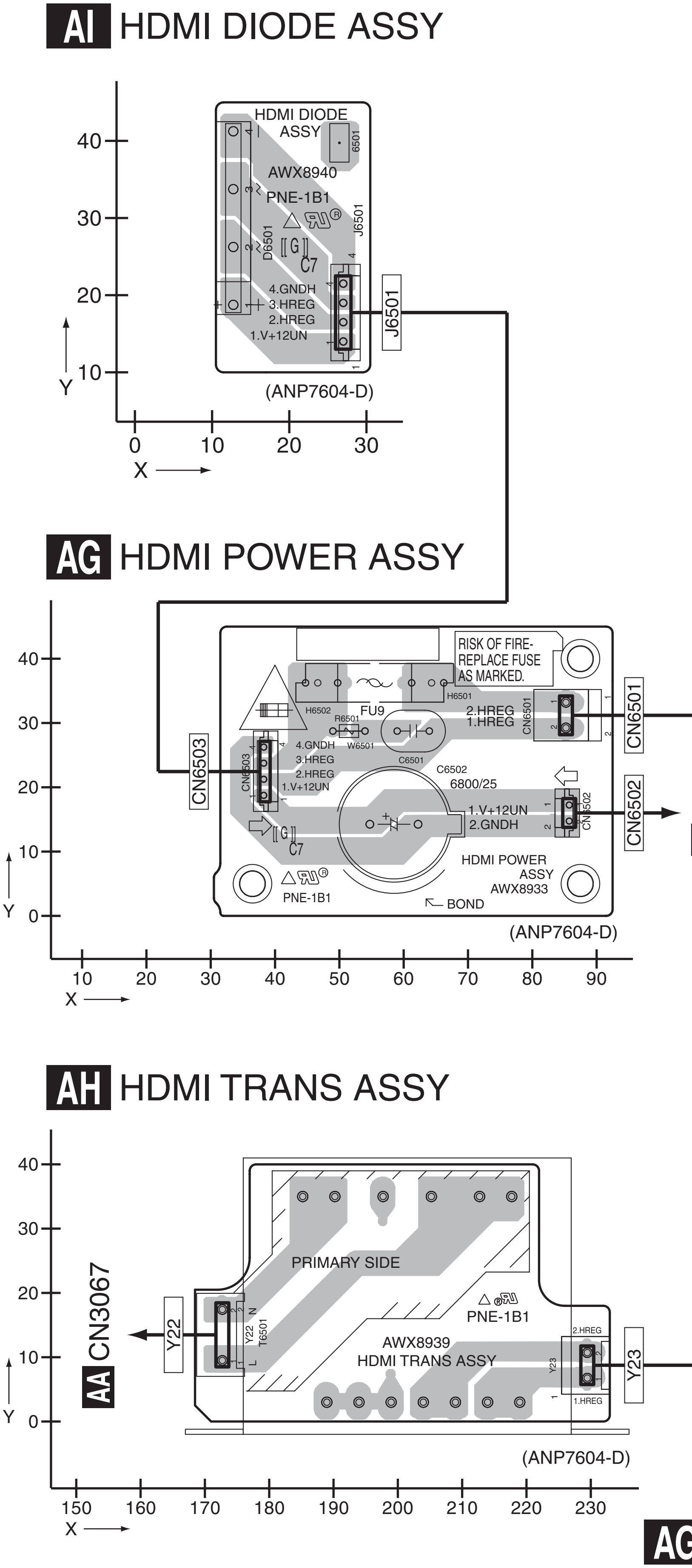


110
100
90
80
70
X
AWX8948
Ass'y
FR IN Barrier1
CMKM-P3X
LF
(ANP7601-C)
20
30
40
50
60
70
80
90
100
110
Y

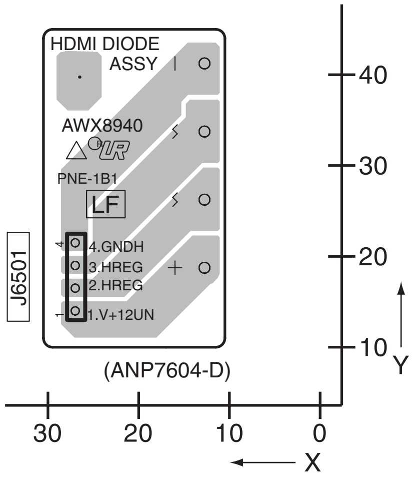
AF AF

11.22 HDMI POWER, HDMI TRANS and HDMI DIODE ASSYS

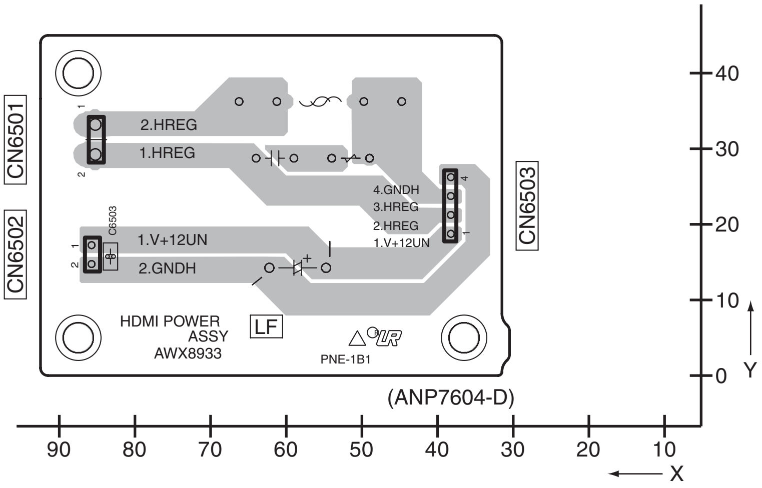
SIDE A **SIDE A**


AI HDMI DIODE ASSY
HDMI DIODE ASSY
AWX8940
PNE-1B1
D6501
J6501
6501
C7
4.GNDH
3.HREG
2.HREG
1.V+12UN
J6501
(ANP7604-D)
40
30
20
10
Y
0
10
20
30
X
AG HDMI POWER ASSY
RISK OF FIRE-
REPLACE FUSE
AS MARKED.
H6502
H6501
FU9
R6501
W6501
C6501
C6502
6800/25
2.HREG
1.HREG
CN6501
CN6503
4.GNDH
3.HREG
2.HREG
1.V+12UN
1.V+12UN
2.GNDH
CN6502
C7
PNE-1B1
HDMI POWER ASSY
AWX8933
BOND
CN6503
CN6501
CN6502
N Y19
(ANP7604-D)
40
30
20
10
0
Y
10
20
30
40
50
60
70
80
90
X
AH HDMI TRANS ASSY
PRIMARY SIDE
PNE-1B1
AWX8939
HDMI TRANS ASSY
T6501
Y22
Y23
2.HREG
1.HREG
N
L
AA CN3067
Y22
Y23
(ANP7604-D)
40
30
20
10
0
Y
150
160
170
180
190
200
210
220
230
X

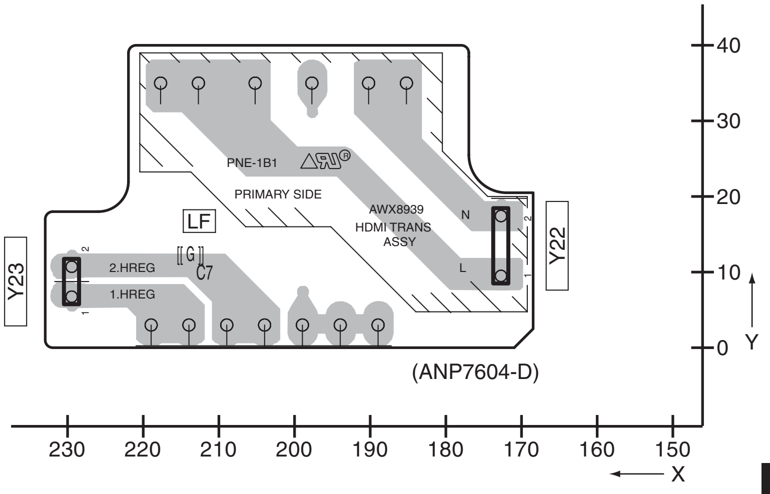
AI HDMI DIODE ASSY


HDMI DIODE
ASSY
AWX8940
PNE-1B1
LF
J6501
4
1
4.GNDH
3.HREG
2.HREG
1.V+12UN
(ANP7604-D)
40
30
20
10
Y
30
20
10
0
X

AG HDMI POWER ASSY

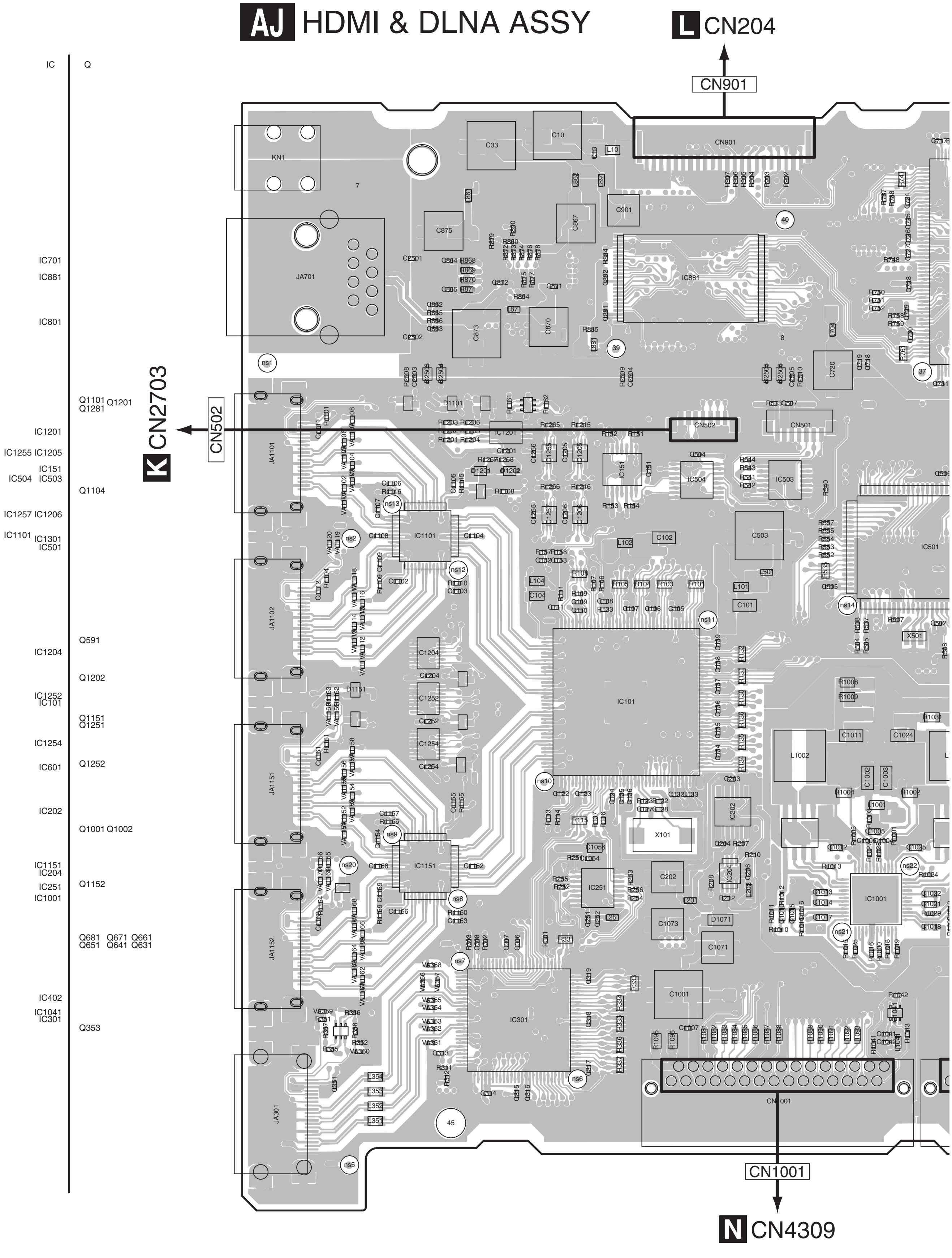

CN6501
1
2
2.HREG
1.HREG
CN6502
1
2
C6503
1.V+12UN
2.GNDH
4
1
4.GNDH
3.HREG
2.HREG
1.V+12UN
CN6503
HDMI POWER
ASSY
AWX8933
LF
PNE-1B1
(ANP7604-D)
40
30
20
10
0
Y
90
80
70
60
50
40
30
20
10
X

AH HDMI TRANS ASSY

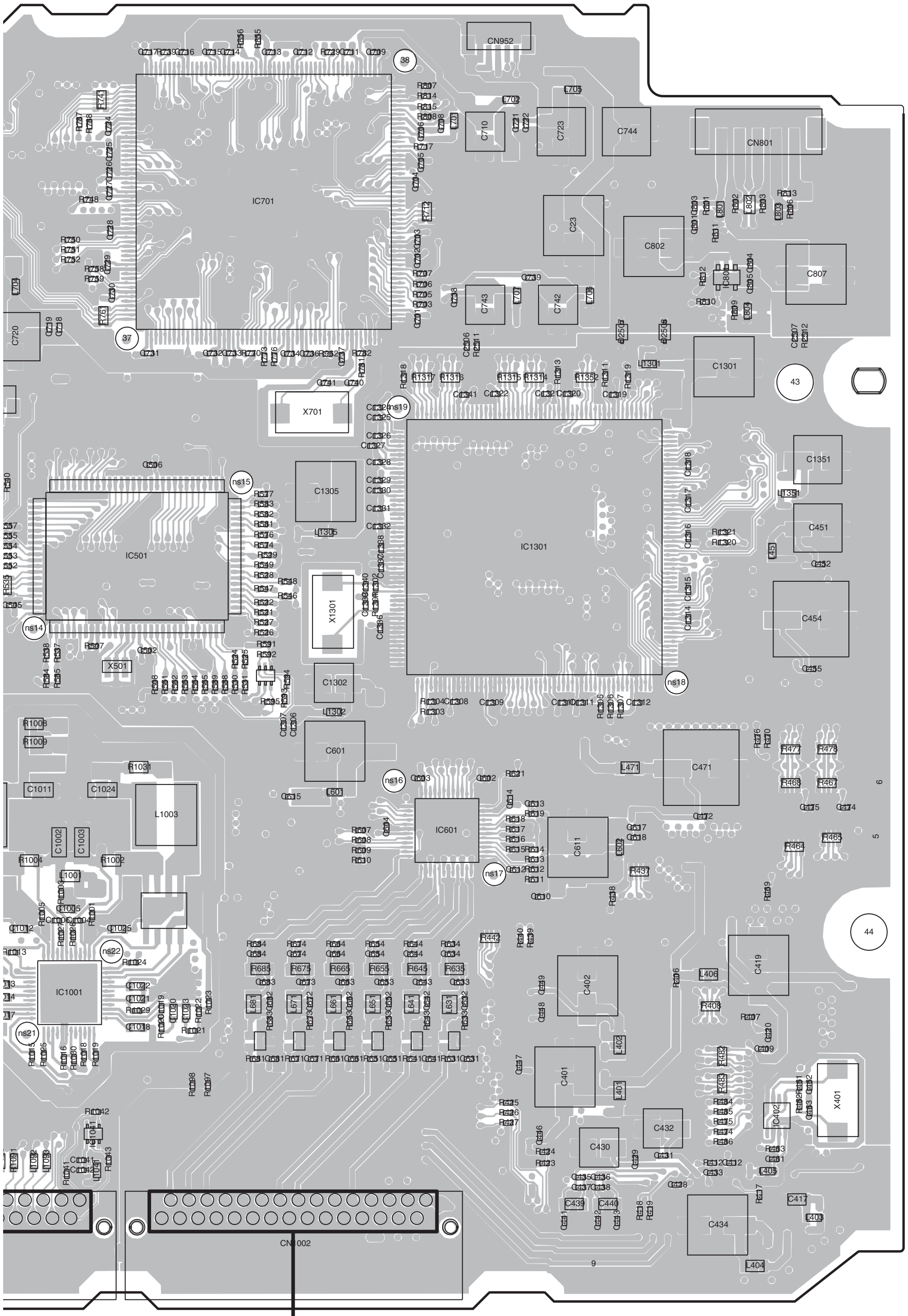

PNE-1B1
PRIMARY SIDE
AWX8939
HDMI TRANS
ASSY
N
L
2
1
Y22
LF
[[G]]
C7
2
1
2.HREG
1.HREG
Y23
(ANP7604-D)
40
30
20
10
0
Y
230
220
210
200
190
180
170
160
150
X

11.23 HDMI & DLNA ASSY (VSX-LX70)

SIDE A


AJ HDMI & DLNA ASSY
L CN204
CN901
K CN2703
CN502
CN1001
N CN4309
IC
Q
IC701
IC881
IC801
Q1101 Q1201
Q1281
IC1201
IC1255 IC1205
IC151
IC504 IC503
Q1104
IC1257 IC1206
IC1101
IC1301
IC501
Q591
IC1204
Q1202
IC1252
IC101
Q1151
Q1251
IC1254
IC601
Q1252
IC202
Q1001 Q1002
IC1151
IC204
IC251
IC1001
Q1152
Q681 Q671 Q661
Q651 Q641 Q631
IC402
IC1041
IC301
Q353
KN1
JA701
JA1101
JA1102
JA1151
JA1152
JA301
IC101
IC1101
IC1151
IC301
IC881
IC501
IC1001
CN901
CN502
CN501
CN1001
X101
X501
L1002
C1001
C1071
C1073
C202
C503
C720
C875
C873
C870
C867
C901
C33
C10

SIDE A


CN952
IC701
C710
C723
C744
CN801
C23
C802
C807
C743
C742
C720
37
38
X701
C1301
43
C1351
C1305
IC501
IC1301
X1301
C451
C454
ns14
ns15
ns16
ns17
ns18
ns19
X501
C1302
C601
C471
IC601
C611
C1011
C1024
L1003
C1002
C1003
44
C419
C402
IC1001
ns21
ns22
C401
X401
C432
C430
C434
C439
C440
CN1002
9
6
5

(ANP7620-A)

CN1002

9

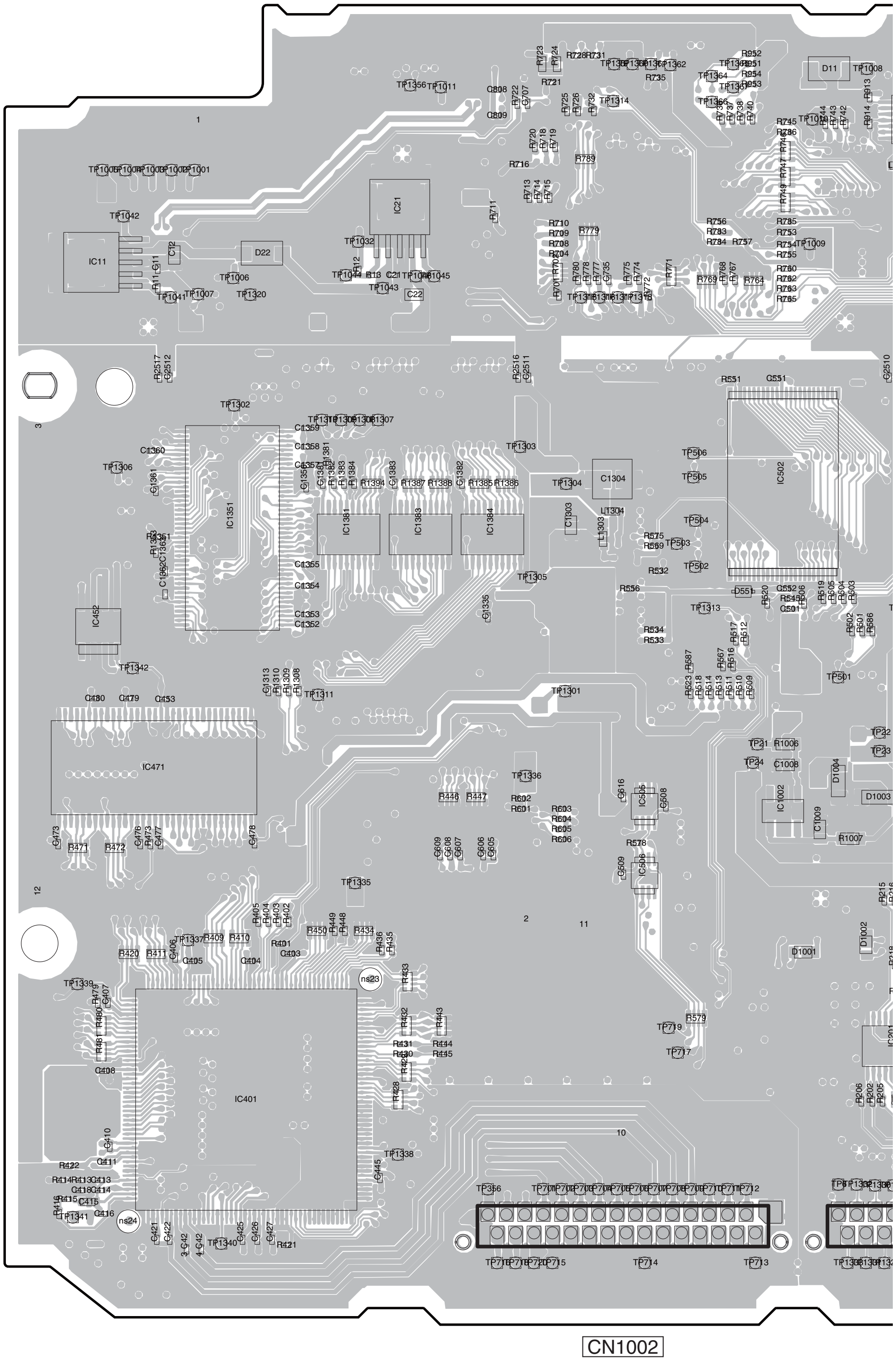
N CN4308

SIDE B

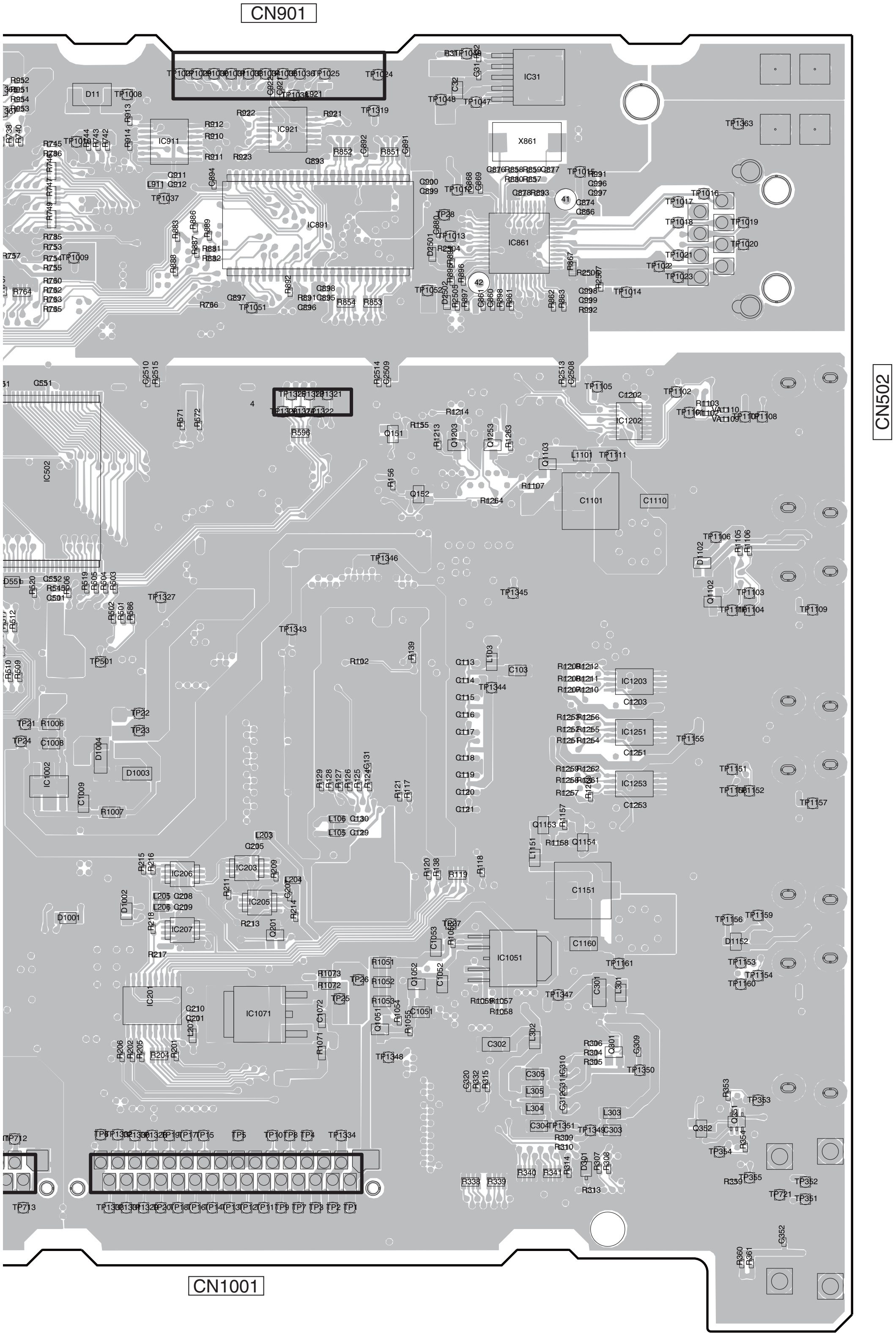
AJ HDMI & DLNA ASSY

IC
IC31
IC921
IC911
IC21
IC891
IC861
IC11
IC1202
IC502
IC1351
IC1383 IC1384
IC1381
IC452
IC1203
IC1251
IC471
IC505 IC1002
IC1253
IC506
IC203
IC206
IC205
IC207
IC1051
IC201
IC1071
IC401

Q
Q151 Q1203 Q1253
Q1103
Q152
Q1102
Q1153
Q1154
Q201
Q1052
Q1051
Q301
Q351
Q352


IC11
D22
IC21
D11
IC1351
IC1381
IC1383
IC1384
C1304
L1304
IC502
IC452
IC471
IC505
IC1002
D1003
IC506
D1001
D1002
IC401
CN1002

SIDE B

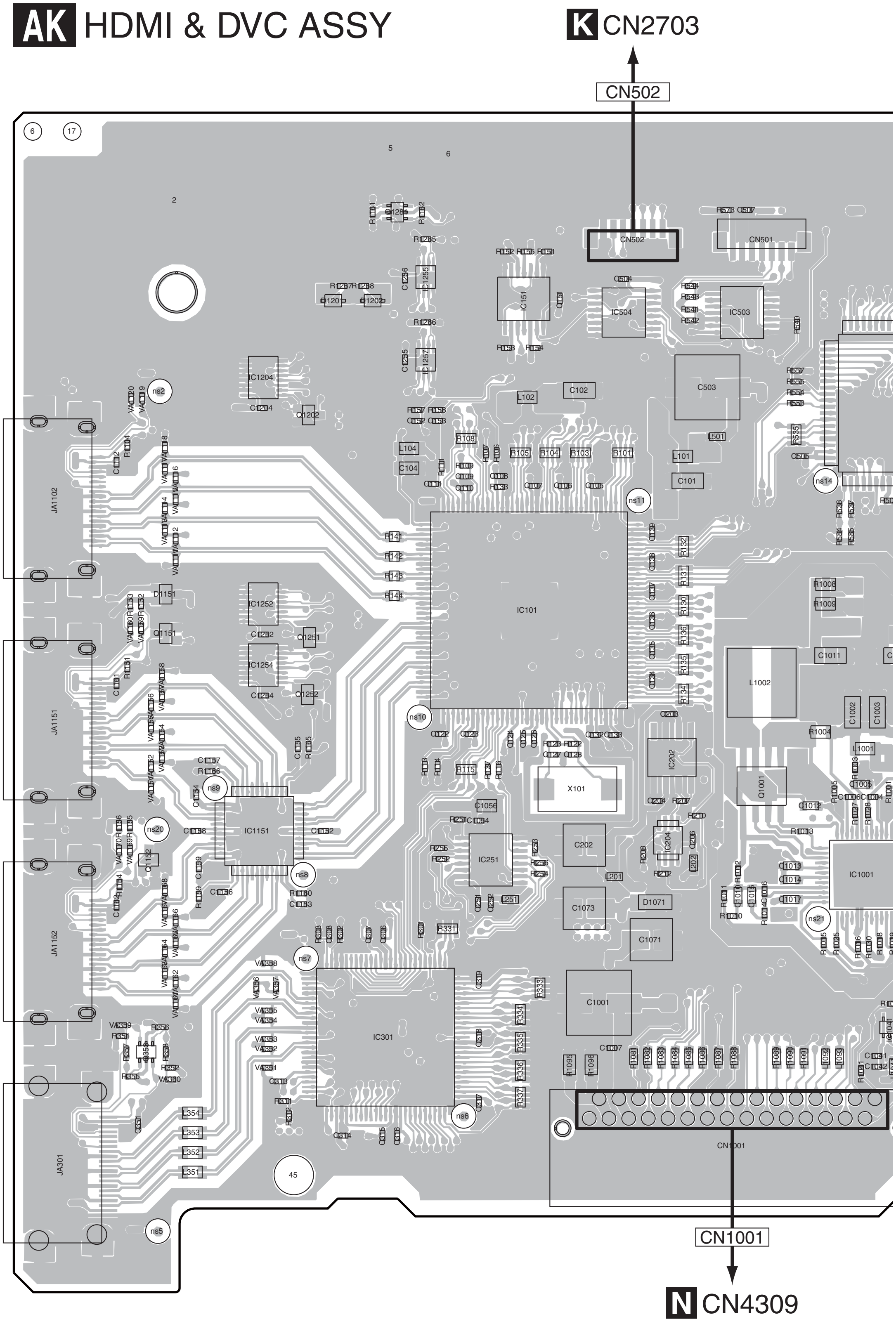

CN901
IC31
X861
IC911
IC921
IC891
IC861
D11
CN502
IC502
IC1202
C1101
C1110
IC1203
IC1251
IC1253
C1151
C1160
IC1051
IC1071
IC201
IC203
IC205
IC206
IC207
IC1002
D1001
D1002
D1003
D1004
C302
41
42
4
CN1001

(ANP7620-A)

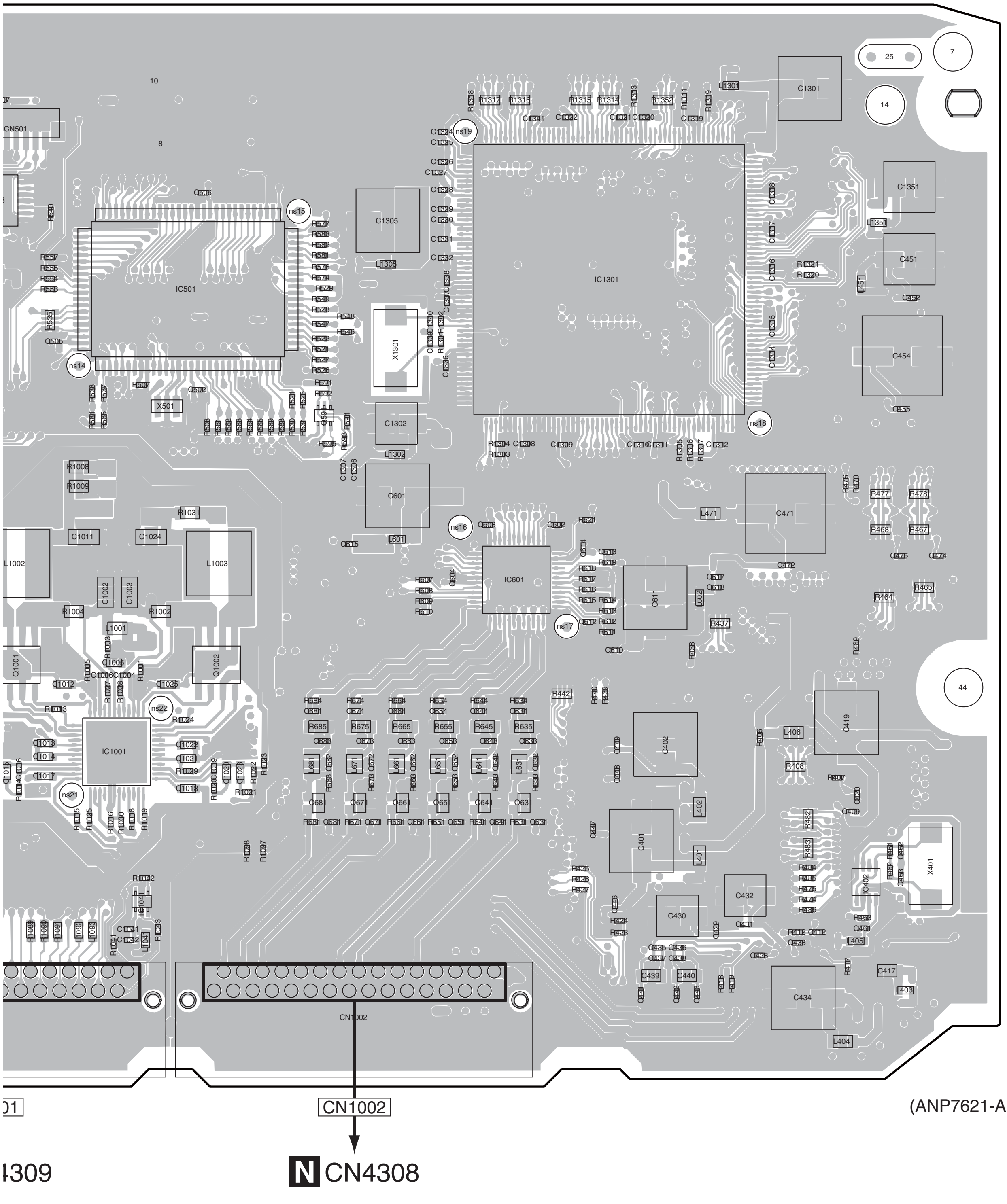
11.24 HDMI & DVC ASSY (VSX-LX60)

SIDE A

IC	Q
	Q1281
IC1255	
IC151	
IC504 IC503	
IC1257	
IC1204	
IC1301 IC501	Q1202
	Q591
IC1252 IC101	
	Q1151 Q1251
IC1254	
IC601	Q1252
IC202	
	Q1001 Q1002
IC1151 IC204	
IC251	Q1152
IC1001	
	Q631 Q641 Q651 Q661 Q671 Q681
IC402	
IC1041 IC301	Q353


AK HDMI & DVC ASSY
K CN2703
CN502
CN501
IC151
IC504
IC503
C503
IC1204
IC1252
IC1254
IC101
IC202
X101
Q1001
L1002
IC1001
IC251
C202
C1073
D1071
C1071
C1001
IC1151
IC301
JA1102
JA1151
JA1152
JA301
CN1001
CN1001
N CN4309

SIDE A


IC1301
IC501
IC601
IC1001
X1301
X501
X401
C1301
C1351
C1305
C1302
C601
C451
C454
C471
C611
C402
C401
C419
C432
C430
C434
C439
C440
L1002
L1003
Q1001
Q1002
CN501
CN1002
ns14
ns15
ns16
ns17
ns18
ns19
ns21
ns22
01
CN1002
4309
N CN4308

(ANP7621-A)

AK

SIDE B

A

AK HDMI & DVC ASSY

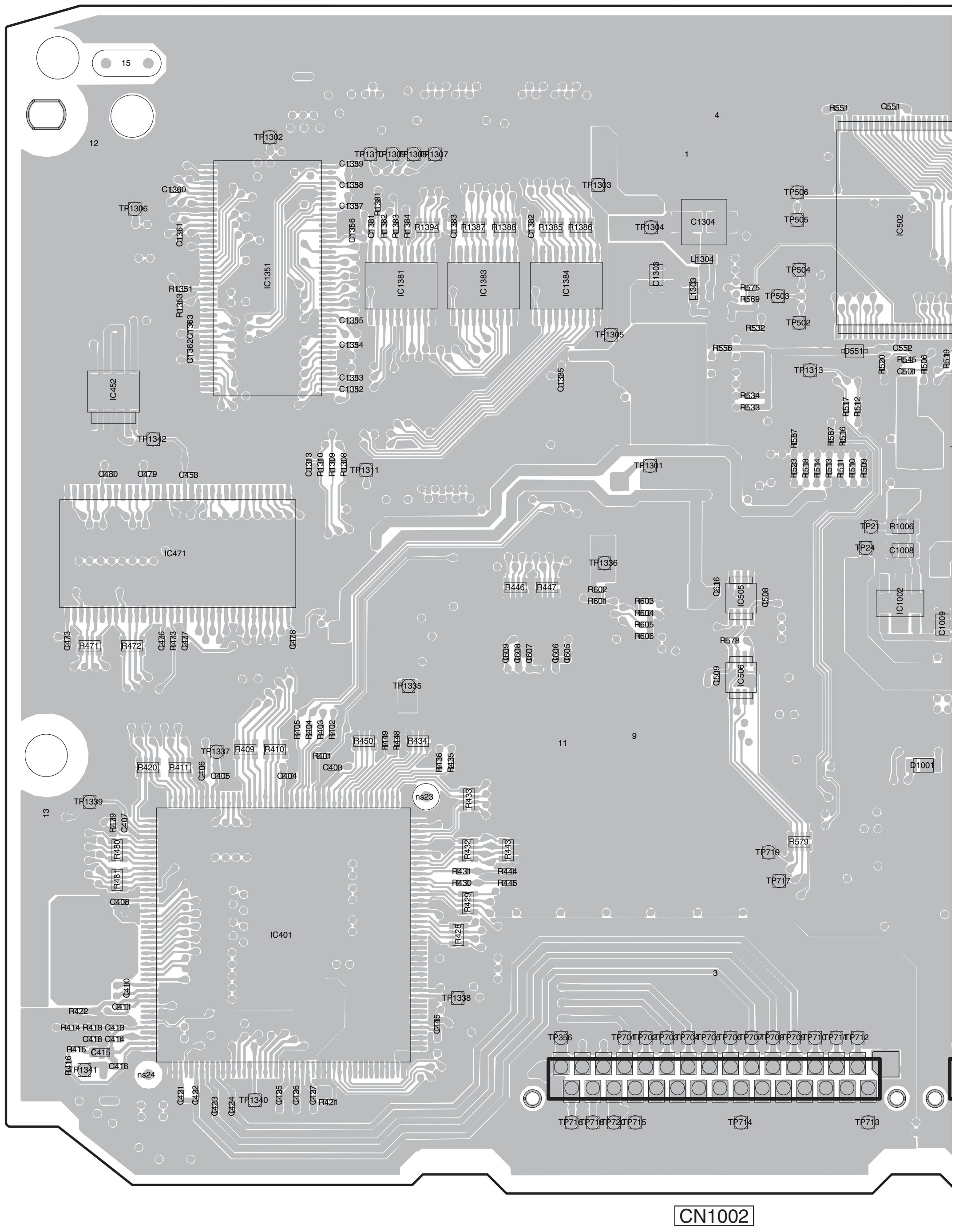
IC	Q
	Q1253
IC502	
	Q152
IC1351 IC1381 IC1383 IC1384 IC1203	
	Q1102
IC452	
IC1251	
IC471	
IC505 IC1253 IC1002	
	Q1153
IC506	Q1154
IC203 IC206	
IC205	
IC207	Q201
IC1051	
	Q1052
IC201 IC1071	
	Q1051
IC401	Q301
	Q351 Q352

B

C

D

E

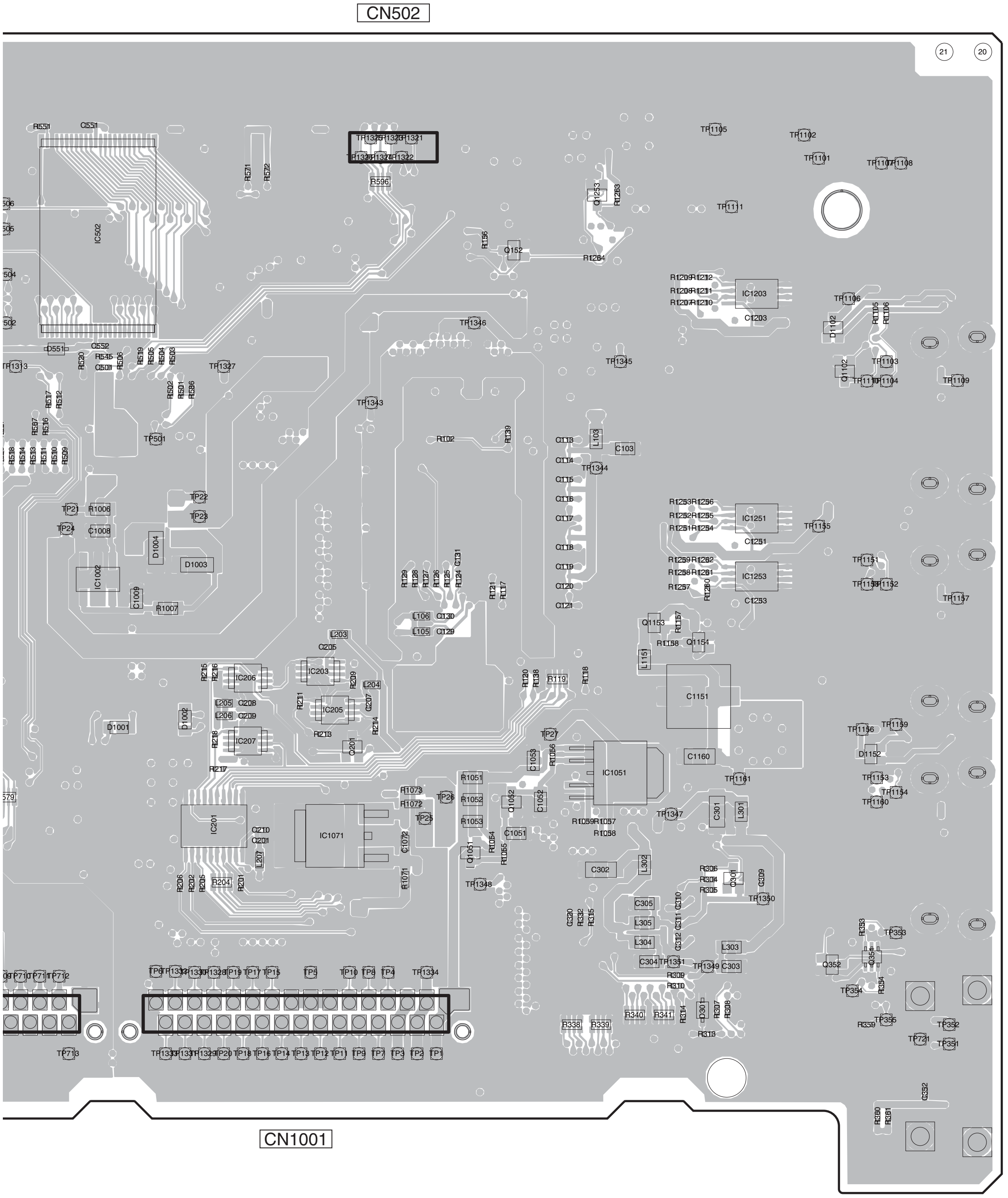


15
12
4
1
TP1302
TP1310 TP1309 TP1308 TP1307
TP1306
TP1303
TP1304
TP1305
TP1301
TP1311
TP1342
TP1336
TP1335
TP1337
TP1339
TP1338
TP1340
TP1341
TP1313
TP506
TP505
TP504
TP503
TP502
TP21
TP24
TP719
TP717
TP356
TP701 TP702 TP703 TP704 TP705 TP706 TP707 TP708 TP709 TP710 TP711 TP712
TP716 TP718 TP720 TP715
TP714
TP713
IC1351
IC1381
IC1383
IC1384
IC452
IC471
IC401
IC502
IC505
IC506
IC1002
C1304
L1304
L1303
C1303
C1359
C1358
C1357
C1356
C1360
C1361
C1355
C1354
C1353
C1352
C1362
C1363
R1351
R1353
C1381
R1381
R1382
R1383
R1384
R1394
C1383
R1387
R1388
C1382
R1385
R1386
C1385
C1313
R1310
R1309
R1308
C430
C479
C453
C473
R471
R472
C476
R473
C477
C478
R446
R447
R602
R601
R603
R604
R605
R606
C616
C608
C509
C508
C507
C506
C505
C609
R578
R579
R409
R410
R405
R404
R403
R402
R401
R450
R439
R438
R434
R436
R435
R420
R411
C406
C405
C404
C403
R433
R432
R443
R431
R444
R430
R445
R429
R428
R479
C407
R480
R481
C408
C410
C411
R422
R414
R413
C413
C412
C414
R415
C415
R416
C416
C445
C421
C422
C423
C424
C425
C426
C427
R421
ns23
ns24
9
11
13
3
R551
C551
R575
R569
R532
R556
D551
C552
R545
C501
R520
R506
R519
R534
R533
R517
R512
R587
R567
R516
R523
R518
R514
R513
R511
R510
R509
R1006
C1008
C1009
D1001
CN1002

F

AK

SIDE B

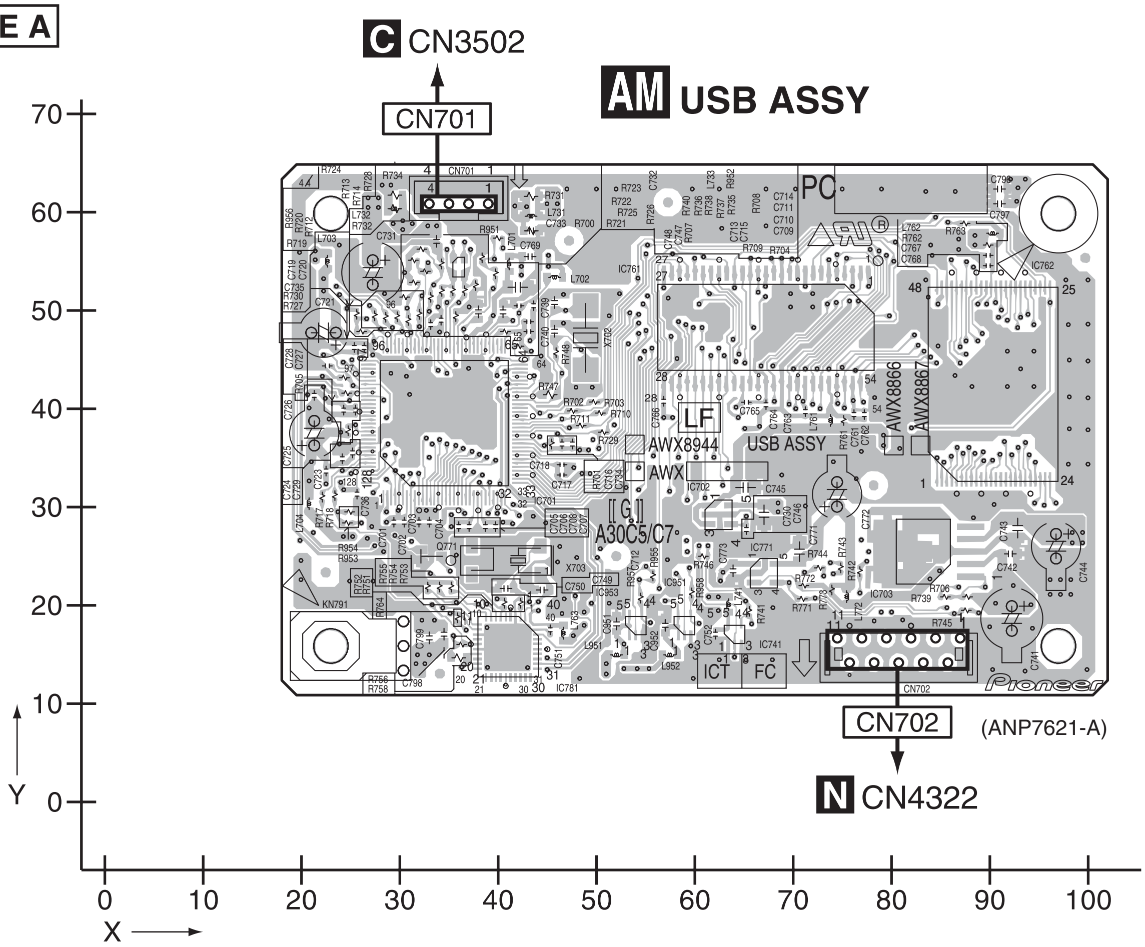

CN502
CN1001
IC502
IC1002
IC201
IC203
IC205
IC206
IC207
IC1051
IC1071
IC1203
IC1251
IC1253
C1151
C1160
D1001
D1002
D1003
D1004
D1152
Q152
Q1153
Q1154
Q1253
TP1105
TP1102
TP1101
TP1107
TP1108
TP1111
TP1106
TP1103
TP1109
TP1155
TP1151
TP1152
TP1157
TP1156
TP1159
TP1161
TP1153
TP1154
TP1160
TP1346
TP1345
TP1343
TP1344
TP1347
TP1348
TP1349
TP1350
TP1351
TP1327
TP1334
TP353
TP354
TP355
TP352
TP351
TP721
TP713
TP501
TP21
TP22
TP23
TP24
TP25
TP26
TP27
21
20

(ANP7621-A)

11.25 USB ASSY (VSX-LX60)

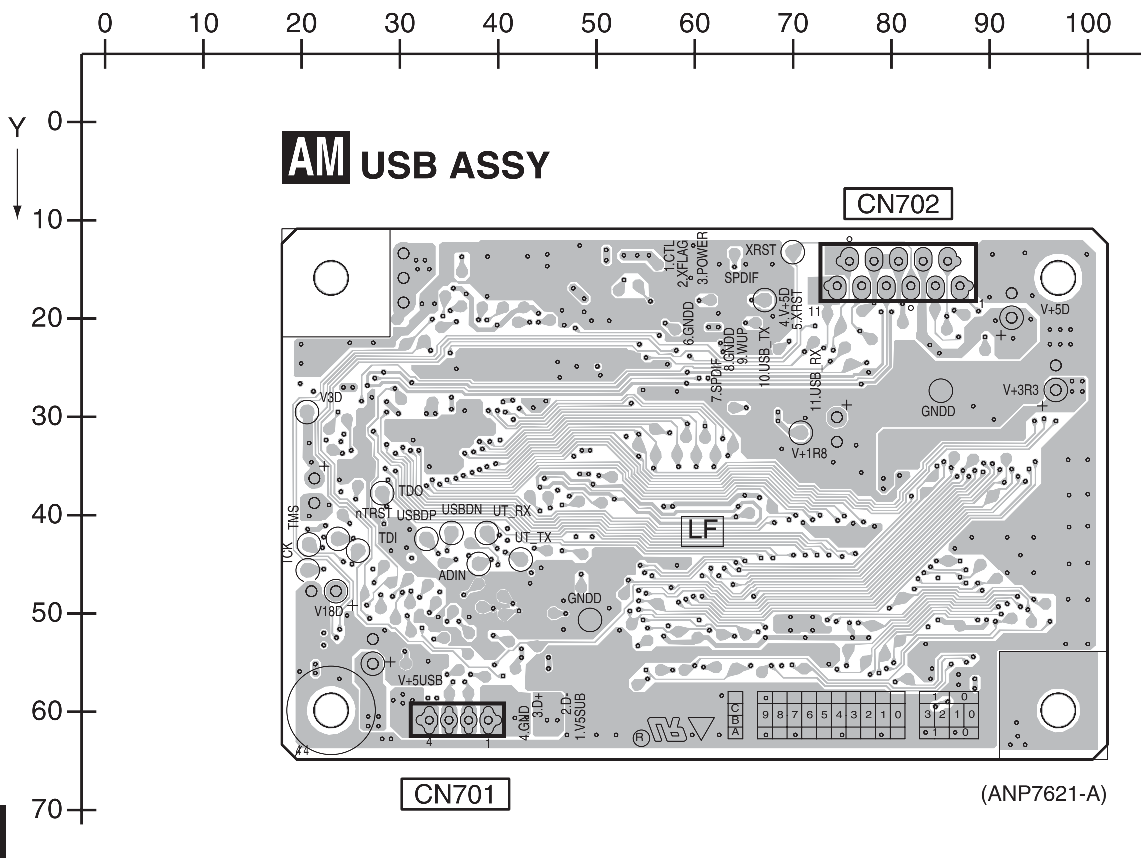
SIDE A

SIDE A


C CN3502
CN701
AM USB ASSY
PC
LF
AWX8944
AWX
USB ASSY
AWX8866
AWX8867
[[G]]
A30C5/C7
ICT
FC
CN702
Pioneer
(ANP7621-A)
N CN4322
Y
X
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
100

SIDE B

SIDE B


X
Y
0
10
20
30
40
50
60
70
80
90
100
AM USB ASSY
CN702
1.CTL
2.XFLAG
3.POWER
XRST
SPDIF
4.V+5D
5.XRST
6.GNDD
7.SPDIF
8.GNDD
9.WUP
10.USB_TX
11.USB_RX
V+5D
V+3R3
GNDD
V+1R8
V3D
TDO
nTRST
USBDP
USBDN
UT_RX
UT_TX
TDI
TCK
TMS
ADIN
V18D
GNDD
LF
V+5USB
4.GND
3.D+
2.D-
1.V5SUB
CN701
(ANP7621-A)

AM

AM

12. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
  Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 x 10^3 → 473 .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → R50 .... RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 Ω → 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

- *Meaning of the figures and others in the parentheses in the parts list.*
  Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
  IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX60/ HYXJ5
NSP	1..POWER AMP ASSY	AWH7012	AWH7012
	2..POWER AMP-L ASSY	AWX8655	AWX8655
	2..POWER AMP-R ASSY	AWX8657	AWX8657
	2..POWER PROTECT ASSY	AWX8659	AWX8659
	2..POWER AMP IN ASSY	AWX8662	AWX8662
NSP	1..COMPLEX ASSY	AWM8082	AWM8087
	2..TRANS 2-2 ASSY	AWX8891	AWX8891
	2..PRIMARY ASSY	AWX8895	AWX8895
NSP	2..FFC GUARD (FRONT) ASSY	AWX8899	AWX8899
	2..DISPLAY ASSY	AWX8900	AWX8900
	2..FRONT-IN ASSY	AWX8902	AWX8904
	2..HEADPHONE ASSY	AWX8905	AWX8905
	2..INPUT SELECT ASSY	AWX8906	AWX8906
	2..VOLUME ASSY	AWX8907	AWX8907
	2..POWER SW ASSY	AWX8908	AWX8908
	1..DIGITAL MOTHER ASSY	AWP7047	AWP7053
NSP	1..VIDEO ASSY	AWQ7056	AWQ7056
	2..COMPOSITE V ASSY	AWX8972	AWX8972
	2..S VIDEO ASSY	AWX8973	AWX8973
	2..PREOUT & CONTROL ASSY	AWX8889	AWX8889
NSP	2..FR IN BARRIER1 ASSY	AWX8948	AWX8948
	1..COMPONENT & VOL ASSY	AWQ7042	AWQ7047
NSP	1..SECONDARY ASSY	AWR7054	AWR7058
	2..SP/PS ASSY	AWX8910	AWX8912
	2..TRANS 2-1 ASSY	AWX8914	AWX8914
NSP	2..DIODE ASSY	AWX8915	AWX8915
	2..VH TR ASSY	AWX8916	AWX8916
	2..DC/DC ASSY	AWX8917	AWX8918
	2..INTERFACE ASSY	AWX8949	AWX8941
NSP	2..TRANS SIDE ASSY	AWX8921	AWX8921
NSP	1..AUDIO ASSY	AWR7062	AWR7065
	2..LOCAL SUPPLY ASSY	AWX8924	AWX8924
	2..AUDIO & MULTI CH IN ASSY	AWX8927	AWX8927
	2..V-AUDIO ASSY	AWX8931	AWX8931
NSP	2..HDMI POWER ASSY	AWX8933	AWX8933
NSP	2..BRIDGE 1 ASSY	AWX8934	AWX8934
NSP	2..BRIDGE 2 ASSY	AWX8935	AWX8935
NSP	2..BRIDGE 3 ASSY	AWX8936	AWX8936
NSP	2..FFC GUARD (SIDE) ASSY	AWX8937	AWX8938
	2..HDMI TRANS ASSY	AWX8939	AWX8939

Mark	Symbol and Description	VSX-LX70/ HYXJ5	VSX-LX60/ HYXJ5
	2..HDMI DIODE ASSY	AWX8940	AWX8940
	1..DSP ASSY	AWX8869	AWX8869
	1..HDMI & DLNA ASSY	AWX8974	Not used
	1..HDMI & DVC ASSY	Not used	AWX8975
	1..USB ASSY	Not used	AWX8944
	1..FM/AM TUNER MODULE	AXX7248	AXX7248

CONTRAST OF PCB ASSEMBLIES

C FRONT-IN ASSY

AWX8902 and AWX8904 are constructed the same except for the following:

Mark	Symbol and Description	AWX8902	AWX8904
	CN3502 4P Plug	Not used	KM200NA4
	CN3501 5P Plug	KM200NA5	Not used

K COMPONENT & VOL ASSY

AWQ7042 and AWQ7047 are constructed the same except for the following:

Mark	Symbol and Description	AWQ7042	AWQ7047
	IC2631	TC4053BFN	Not used
	IC2635	TC4052BFN	Not used
	IC2633, IC2634	BA4560RF	Not used
	Q2630, Q2632, Q2633	RT1N241M	Not used
	C2631, C2632, C2641, C2642	CKSRYB103K50	Not used
	C2647, C2648, C2651, C2652	CKSRYB103K50	Not used
	C2639, C2640, C2643, C2644	CCSRCH220J50	Not used
	C2645, C2646	CEAT100M50	Not used
	R2641, R2642, R2653, R2654	RS1/16S472J	Not used
	R2643, R2644	RS1/16S101J	Not used
	R2645, R2646, R2651, R2652	RS1/16S113J	Not used
	R2647, R2648	RS1/16S0R0J	Not used
	R2649, R2650	RS1/16S153J	Not used
	R2655, R2656	RS1/16S474J	Not used
	R2659-R2662	Not used	RS1/16S0R0J
	R2690-R2692	RS1/16S473J	Not used

L DIGITAL MOTHER ASSY

AWP7047 and AWP7053 are constructed the same except for the following:

Mark	Symbol and Description	AWP7047	AWP7053
	IC101	PEG395A8	PEG427A8
	IC315	TC74LCX541FTS1-TBB	Not used
	L315	QTL1013	Not used
	C307	CKSRYB104K16	Not used
	C346	CKSSYB104K10	Not used
	R152, R155	RS1/16S473J	Not used
	R154	Not used	RS1/16S473J
	R250	RS1/16S104J	Not used
	R313, R555, R655, R755	RS1/16SS101J	Not used
	R400, R433-R436	RS1/16SS470J	Not used
	R556, R557, R656, R657, R756, R757	RS1/16SS0R0J	Not used
	R992	Not used	RS1/16S0R0J
	R993-R999	Not used	RS1/16SS0R0J
	R437	RAB4CQ470J	Not used
	CN204 (22P FFC Connector)	RKN1063	Not used
	JA207 (Optical Link Out)	AKS7002	Not used

N INTERFACE ASSY

AWX8949 and AWX8941 are constructed the same except for the following:

Mark	Symbol and Description	AWX8949	AWX8941
	L4362	CTF1385	Not used
	L4363	CTF1385	VTL1169
	R4362	Not used	RS1/16S0R0J
	CN4322 11P Plug	Not used	XKP3065

T DC/DC ASSY

AWX8917 and AWX8918 are constructed the same except for the following:

Mark	Symbol and Description	AWX8917	AWX8918
	C4272	CEAT103M16	CEAT682M25
	C4273	CEHAZL102M6R3	CEHAZL331M6R3
	C4274	CEHAZL102M16	CEHAZL471M25
	L4271	ATH7044	ATH7052

X SP/PS ASSY

AWX8910 and AWX8912 are constructed the same except for the following:

Mark	Symbol and Description	AWX8910	AWX8912
	C4101, C4102	ACH7258	ACH7255

FFC GUARD (SIDE) ASSY

AWX8937 and AWX8938 are constructed the same except for the following:

Mark	Symbol and Description	AWX8937	AWX8938
	KN5861 Screw Plate	Not used	ANG7591

PCB PARTS LIST FOR VSX-LX70 UNLESS OTHER WISE NOTED

POWER AMP ASSY (AWH7012)

MISCELLANEOUS

Mark	No.	Description	Part No.
J	13	JUMPER WIRE	D20PDY0525E
Y	3	LEAD WITH HOUSING	ADX7458
Y	1	LEAD WITH HOUSING	ADX7459
Y	2	LEAD WITH HOUSING	ADX7457
Y	4	LEAD WITH HOUSING	ADX7460
⚠	11	P.C.BOARD	ANP7542
Y	5	LEAD WITH HOUSING	ADX7404
Y	6	LEAD WITH HOUSING	ADX7498

COMPLEX ASSY (AWM8082)

MISCELLANEOUS

Mark	No.	Description	Part No.
J	3301	3P JUMPER WIRE	D20PDD0310E
J	3302	3P JUMPER WIRE	D20PDD0315E
J	3303	4PJUMPER WIRE	D20PDD0415E
⚠ Y	14	AWG18 BOARD IN	ADX7604
⚠ Y	15	AWG18 BOARD IN	ADX7491

SECONDARY ASSY (AWR7054)

MISCELLANEOUS

Mark	No.	Description	Part No.
Y	10	AWG14 BOARD IN	ADX7489
Y	9	AWG14 BOARD IN	ADX7488
Y	8	AWG14 BOARD IN	ADX7451
Y	11	AWG14 BOARD IN	ADX7454
Y	12	AWG14 BOARD IN	ADX7455

FFC GUARD (FRONT) ASSY (AWX8899)

MISCELLANEOUS

Mark	No.	Description	Part No.
	3152(A,322,161)	PCB BINDER	VEF1040
	3151(A,302,132)	PCB BINDER	VEF1040

FFC GUARD (SIDE) ASSY (AWX8937)

MISCELLANEOUS

Mark	No.	Description	Part No.
	5862(A,175,32)	PCB BINDER	VEF1040
	5861(A,170,77)	PCB BINDER	VEF1040

A AUDIO & MULTI CH IN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	6201(B,71,191)	AUDIO IC	BD3841FS
IC	6203(B,130,185)	OP-AMP IC	BA4560RF
JA	6401(A,14,230)	JACK	AKN-209
CN	6202(A,20,178)	17P SOCKET	XKP3079
CN	6203(A,109,174)	23P SOCKET	XKP3082
CN	6204(A,66,174)	15P SOCKET	XKP3078
CN	6205(A,133,230)	PIN JACK(4P)	AKB7172
CN	6207(A,91,230)	PIN JACK(4P)	AKB7172
CN	6208(A,63,230)	PIN JACK(4P)	AKB7172
CN	6209(A,35,230)	PIN JACK(4P)	AKB7172
	6201(A,141,173)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	6201(B,122,215)		RS1/16S473J
R	6202(B,126,215)		RS1/16S473J
R	6205(B,96,215)		RS1/16S104J
R	6206(B,100,215)		RS1/16S104J
R	6207(B,82,215)		RS1/16S473J
R	6208(B,86,215)		RS1/16S473J
R	6209(B,68,215)		RS1/16S223J
R	6210(B,72,215)		RS1/16S223J
R	6211(B,54,215)		RS1/16S474J
R	6212(B,58,215)		RS1/16S474J
R	6213(B,41,215)		RS1/16S474J
R	6214(B,45,215)		RS1/16S474J
R	6215(B,27,213)		RS1/16S474J
R	6216(B,31,213)		RS1/16S474J
R	6217(B,119,214)		RS1/16S331J
R	6218(B,128,214)		RS1/16S331J
R	6221(B,93,214)		RS1/16S222J
R	6222(B,102,214)		RS1/16S222J
R	6223(B,79,214)		RS1/16S331J
R	6224(B,88,214)		RS1/16S331J
R	6225(B,65,214)		RS1/16S331J
R	6226(B,74,214)		RS1/16S331J
R	6227(B,52,214)		RS1/16S331J
R	6228(B,61,214)		RS1/16S331J
R	6229(B,38,214)		RS1/16S331J
R	6230(B,47,214)		RS1/16S331J
R	6231(B,24,212)		RS1/16S331J
R	6232(B,33,212)		RS1/16S331J
R	6237(B,96,204)		RS1/16S154J
R	6238(B,100,204)		RS1/16S154J
R	6251(B,135,212)		RS1/16S104J
R	6252(B,139,212)		RS1/16S104J
R	6253(B,134,209)		RS1/16S561J
R	6254(B,140,209)		RS1/16S561J
R	6255(B,136,192)		RS1/16S104J
R	6256(B,141,181)		RS1/16S104J
R	6257(B,136,188)		RS1/16S561J
R	6258(B,136,182)		RS1/16S561J
R	6259(B,132,196)		RS1/16S394J
R	6260(B,134,177)		RS1/16S394J
R	6261(B,124,196)		RS1/16S303J
R	6262(B,126,177)		RS1/16S303J
R	6263(B,122,196)		RS1/16S471J
R	6264(B,124,177)		RS1/16S471J
R	6265(B,117,191)		RS1/16S224J
R	6266(B,115,176)		RS1/16S224J
R	6267(B,46,190)		RS1/16S101J
R	6268(B,48,190)		RS1/16S101J
R	6269(B,84,195)		RS1/16S0R0J
R	6270(B,84,193)		RS1/16S0R0J
R	6271(B,102,191)		RS1/16S473J
R	6272(B,100,191)		RS1/16S473J
R	6273(B,97,191)		RS1/16S473J
R	6274(B,95,191)		RS1/16S473J
R	6282(B,112,203)		RS1/16S105J
R	6283(B,110,203)		RS1/16S105J
R	6286(B,38,172)		RS1/16S0R0J
R	6287(B,83,178)		RS1/16S0R0J
R	6299(B,36,198)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	6201(B,124,221)		CCSRCH101J50

Mark	No.	Description	Part No.
C	6202(B,127,221)		CCSRCH101J50
C	6205(B,96,221)		CCSRCH101J50
C	6206(B,99,221)		CCSRCH101J50
C	6207(B,82,221)		CCSRCH101J50
C	6208(B,85,221)		CCSRCH101J50
C	6209(B,68,221)		CCSRCH101J50
C	6210(B,71,221)		CCSRCH101J50
C	6211(B,54,221)		CCSRCH101J50
C	6212(B,57,221)		CCSRCH101J50
C	6213(B,40,221)		CCSRCH101J50
C	6214(B,43,221)		CCSRCH101J50
C	6215(B,26,221)		CCSRCH101J50
C	6216(B,29,221)		CCSRCH101J50
C	6217(B,122,213)		CCSRCH151J50
C	6218(B,126,213)		CCSRCH151J50
C	6221(B,96,213)		CCSRCH220J50
C	6222(B,100,213)		CCSRCH220J50
C	6223(B,82,213)		CCSRCH151J50
C	6224(B,86,213)		CCSRCH151J50
C	6225(B,68,213)		CCSRCH151J50
C	6226(B,72,213)		CCSRCH151J50
C	6227(B,54,213)		CCSRCH101J50
C	6228(B,58,213)		CCSRCH101J50
C	6229(B,41,213)		CCSRCH101J50
C	6230(B,45,213)		CCSRCH101J50
C	6231(B,27,211)		CCSRCH101J50
C	6232(B,31,211)		CCSRCH101J50
C	6237(A,95,207)		CEAT100M50
C	6238(A,101,207)		CEAT100M50
C	6243(A,53,207)	ELECT. CAPACITOR	CEAT470M25
C	6244(A,60,207)	ELECT. CAPACITOR	CEAT470M25
C	6245(A,39,207)	ELECT. CAPACITOR	CEAT470M25
C	6246(A,47,207)	ELECT. CAPACITOR	CEAT470M25
C	6247(A,26,205)	ELECT. CAPACITOR	CEAT470M25
C	6248(A,32,205)	ELECT. CAPACITOR	CEAT470M25
C	6249(B,138,221)		CCSRCH221J50
C	6250(B,141,221)		CCSRCH221J50
C	6251(A,134,201)		CEAT100M50
C	6252(A,140,201)		CEAT100M50
C	6253(B,134,192)		CCSRCH331J50
C	6254(B,143,181)		CCSRCH331J50
C	6255(A,139,189)		CEAT470M16
C	6256(A,139,181)		CEAT470M16
C	6257(B,134,188)		CCSRCH561J50
C	6258(B,134,182)		CCSRCH561J50
C	6259(B,130,196)		CKSRYB822K50
C	6260(B,132,177)		CKSRYB822K50
C	6261(B,128,196)		CKSRYB122K50
C	6262(B,130,177)		CKSRYB122K50
C	6263(A,120,194)		CEAT100M50
C	6264(A,118,174)		CEAT100M50
C	6265(A,122,180)		CEAT470M16
C	6266(A,122,188)		CEAT470M16
C	6267(B,51,189)		CCSRCH101J50
C	6268(B,53,189)		CCSRCH101J50
C	6269(B,67,182)		CKSRYB103K50
C	6270(B,69,182)		CKSRYB103K50
C	6279(B,130,222)		CKSRYB103K50
C	6283(B,132,222)		CKSRYB104K16
C	6284(B,91,224)		CKSRYB103K50
C	6285(B,64,223)		CKSRYB103K50
C	6286(B,35,224)		CKSRYB104K16
C	6291(B,134,222)		CKSRYB471K50
C	6292(B,33,224)		CKSRYB471K50
C	6293(B,126,196)		CKSRYB122K50
C	6294(B,128,177)		CKSRYB122K50
C	6295(A,78,180)		CEAT470M25
C	6296(A,73,172)		CEAT470M25
C	6403(B,21,206)		CKSRYB104K50
C	6404(B,21,208)		CKSRYB471K50
C	6405(B,17,217)		CKSRYB103K50
C	6406(B,13,217)		CKSRYB103K50

B V-AUDIO ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	6301(B,50,143)	AUDIO IC	BD3841FS
Q	6301(B,13,143)	TRANSISTOR	IMX25
JA	6301(A,26,107)	PIN JACK(6P)	AKB7174
CN	6301(A,121,144)	CONNECTOR(06P)	TUC-P06X-B1
CN	6302(A,38,163)	23P SOCKET	XKP3082
CN	6307(A,61,107)	PIN JACK(4P)	AKB7172
CN	6308(A,89,107)	PIN JACK(4P)	AKB7172
CN	6309(A,117,107)	PIN JACK(4P)	AKB7172

RESISTORS

Mark	No.	Description	Part No.
R	6301(B,23,127)		RS1/16S473J
R	6302(B,19,127)		RS1/16S473J
R	6303(B,26,128)		RS1/16S331J
R	6304(B,17,128)		RS1/16S331J
R	6307(B,36,127)		RS1/16S473J
R	6308(B,32,127)		RS1/16S473J
R	6309(B,39,128)		RS1/16S331J
R	6310(B,30,128)		RS1/16S331J
R	6313(B,49,127)		RS1/16S473J
R	6314(B,45,127)		RS1/16S473J
R	6315(B,52,128)		RS1/16S331J
R	6316(B,43,128)		RS1/16S331J
R	6319(B,62,127)		RS1/16S473J
R	6320(B,58,127)		RS1/16S473J
R	6321(B,65,128)		RS1/16S331J
R	6322(B,55,128)		RS1/16S331J
R	6325(B,75,127)		RS1/16S104J
R	6326(B,71,127)		RS1/16S104J
R	6327(B,78,128)		RS1/16S222J
R	6328(B,69,128)		RS1/16S222J
R	6329(B,75,134)		RS1/16S154J
R	6330(B,71,134)		RS1/16S154J
R	6331(B,88,127)		RS1/16S473J
R	6332(B,84,127)		RS1/16S473J
R	6333(B,91,128)		RS1/16S331J
R	6334(B,82,128)		RS1/16S331J
R	6337(B,101,127)		RS1/16S104J
R	6338(B,97,127)		RS1/16S104J
R	6339(B,104,128)		RS1/16S222J
R	6340(B,95,128)		RS1/16S222J
R	6341(B,101,134)		RS1/16S154J
R	6342(B,97,134)		RS1/16S154J
R	6343(B,113,133)		RS1/16S473J
R	6344(B,109,127)		RS1/16S473J

Mark	No.	Description	Part No.
R	6345(B,113,135)		RS1/16S331J
R	6346(B,109,129)		RS1/16S331J
R	6351(B,13,131)		RS1/16S102J
R	6352(B,9,136)		RS1/16S102J
R	6353(B,18,149)		RS1/16S103J
R	6354(B,8,149)		RS1/16S103J
R	6355(B,16,156)		RS1/16S102J
R	6356(B,11,158)		RS1/16S102J
R	6361(B,73,152)		RS1/16S101J
R	6362(B,69,152)		RS1/16S101J
R	6381(B,38,148)		RS1/16S473J
R	6382(B,40,147)		RS1/16S473J
R	6383(B,35,165)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	6301(B,28,116)		CCSRCH101J50
C	6302(B,23,116)		CCSRCH101J50
C	6303(B,23,129)		CCSRCH101J50
C	6304(B,19,129)		CCSRCH101J50
C	6307(B,42,116)		CCSRCH101J50
C	6308(B,37,116)		CCSRCH101J50
C	6309(B,36,129)		CCSRCH101J50
C	6310(B,32,129)		CCSRCH101J50
C	6313(B,56,116)		CCSRCH101J50
C	6314(B,51,116)		CCSRCH101J50
C	6315(B,49,129)		CCSRCH101J50
C	6316(B,45,129)		CCSRCH101J50
C	6319(B,70,116)		CCSRCH101J50
C	6320(B,65,116)		CCSRCH101J50
C	6321(B,62,129)		CCSRCH101J50
C	6322(B,58,129)		CCSRCH101J50
C	6325(B,83,114)		CCSRCH101J50
C	6326(B,79,113)		CCSRCH101J50
C	6327(B,75,129)		CCSRCH220J50
C	6328(B,71,129)		CCSRCH220J50
C	6329(A,77,137)		CEAT100M50
C	6330(A,70,137)		CEAT100M50
C	6331(B,98,116)		CCSRCH101J50
C	6332(B,93,116)		CCSRCH101J50
C	6333(B,88,129)		CCSRCH101J50
C	6334(B,84,129)		CCSRCH101J50
C	6337(B,111,114)		CCSRCH101J50
C	6338(B,107,113)		CCSRCH101J50
C	6339(B,101,129)		CCSRCH220J50
C	6340(B,97,129)		CCSRCH220J50
C	6341(A,103,137)		CEAT100M50
C	6342(A,96,137)		CEAT100M50
C	6343(B,126,116)		CCSRCH101J50
C	6344(B,121,116)		CCSRCH101J50
C	6345(B,113,137)		CCSRCH101J50
C	6346(B,109,131)		CCSRCH101J50
C	6349(B,33,114)		CKSRYB104K16
C	6350(B,61,114)		CKSRYB104K16
C	6351(B,89,114)		CKSRYB104K16
C	6353(B,14,116)		CCSRCH331J50
C	6354(B,9,116)		CCSRCH331J50
C	6359(B,60,149)		CCSRCH101J50
C	6360(B,62,149)		CCSRCH101J50
C	6361(B,56,151)		CKSRYB103K50
C	6362(B,52,151)		CKSRYB103K50
C	6363(A,79,157)		CEAT470M25
C	6364(A,73,162)		CEAT470M25
C	6368(B,19,114)		CKSRYB103K50
C	6369(B,22,111)		CKSRYB103K50
C	6377(A,62,156)	ELECT. CAPACITOR	CEAT470M25
C	6378(A,56,156)	ELECT. CAPACITOR	CEAT470M25
C	6379(B,35,114)		CKSRYB471K50
C	6380(B,63,114)		CKSRYB471K50
C	6381(B,91,114)		CKSRYB471K50

C FRONT-IN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	3451(B,50,39)	OP-AMP IC	BA4560RF
Q	3451(B,103,33)	CHIP TRANSISTOR	HN1C01FU
D	3451(B,72,45)	DIODE	UDZS5R1(B)
D	3452(B,70,45)	DIODE	UDZS5R1(B)
D	3453(B,34,27)	DIODE	UDZS5R1(B)
D	3454(B,47,24)	DIODE	DAN217U
D	3455(B,128,27)	DIODE	DAN217U
D	3467(B,42,42)	DIODE	DAN217U
D	3502(B,14,45)	ZENER DIODE	UMZU6.2N
D	3504(B,8,36)	ZENER DIODE	UMZU6.2N
L	3453(B,57,28)	CHIP SOLID INDUCTOR	QTL1013
L	3465	INDUCTOR	CTF1385
JA	3451(A,32,11)	JACK	RKN1004
JA	3452(A,117,15)	FRONT AV INPUT	AKX7019
JA	3501(A,14,10)	USB CONNECTOR	XKP3086
KN	3451(A,36,39)	WRAPPING TERMINAL	VNF1084
KN	3452(A,123,39)	WRAPPING TERMINAL	VNF1084
CN	3451(A,118,53)	CONNECTOR	CKS3380
CN	3501(A,11,39)	PLUG(5P)	KM200NA5
	3501(A,22,32)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	3451(B,37,21)		RS1/16S682J
R	3452(B,38,18)		RS1/16S104J
R	3453(B,39,25)		RS1/16S101J
R	3454(B,42,26)		RS1/16S104J
R	3455(B,48,32)		RS1/16S333J
R	3456(B,46,31)		RS1/16S432J
R	3457(B,48,46)		RS1/16S432J
R	3458(B,52,46)		RS1/16S333J
R	3459(B,55,46)		RS1/16S101J
R	3460(B,29,26)		RS1/16S102J
R	3461(B,68,48)		RS1/16S104J
R	3462(B,63,26)		RS1/16S101J
R	3463(B,36,27)		RS1/16S102J
R	3469(B,105,62)		RS1/16S0R0J
R	3470(B,111,51)		RS1/16S0R0J
R	3471(B,73,28)		RS1/16S750J
R	3472(B,73,31)		RS1/16S0R0J
R	3473(B,78,26)		RS1/16S750J
R	3474(B,76,28)		RS1/16S0R0J
R	3475(B,85,26)		RS1/16S750J
R	3476(B,87,28)		RS1/16S0R0J
R	3477(B,102,63)		RS1/16S0R0J
R	3480(B,45,35)		RS1/16S101J
R	3481(B,97,23)		RS1/16S104J

Mark	No.	Description	Part No.
R	3482(B,125,23)		RS1/16S104J
R	3483(B,95,27)		RS1/16S221J
R	3484(B,121,27)		RS1/16S221J
R	3485(B,95,31)		RS1/16S104J
R	3486(B,113,24)		RS1/16S104J
R	3487(B,93,36)		RS1/16S221J
R	3488(B,113,28)		RS1/16S221J
R	3489(B,113,51)		RS1/16S101J
R	3490(B,118,50)		RS1/16S101J
R	3491(B,108,38)		RS1/16S153J
R	3492(B,110,38)		RS1/16S153J
R	3493(B,106,38)		RS1/16S470J
R	3494(B,117,46)		RS1/16S470J
R	3495(B,108,24)		RS1/16S0R0J
R	3496(B,121,23)		RS1/16S0R0J
R	3497(B,98,26)		RS1/16S0R0J
R	3498(B,114,36)		RS1/16S0R0J
R	3499(B,116,36)		RS1/16S0R0J
R	3501(B,12,31)		RS1/16S0R0J
R	3502(B,14,31)		RS1/16S0R0J
R	3503(B,6,31)		RS1/16S0R0J
R	3504(B,11,26)		RS1/16S0R0J
R	3505(B,18,44)		RS1/16S0R0J
R	3506(B,20,36)		RS1/16S0R0J
R	3507(B,26,33)		RS1/16S0R0J
R	3508(B,20,39)		RS1/16S0R0J
R	3509(B,20,46)		RS1/16S0R0J
R	3510(B,7,39)		RS1/16S222J
R	3511(B,17,48)		RS1/16S0R0J
R	3512(B,17,37)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3451(B,36,18)		CKSRYB471K50
C	3452(B,41,21)		CKSQYB106K6R3
C	3453(B,42,24)		CCSRCH101J50
C	3454(B,50,32)		CCSRCH220J50
C	3455(B,50,46)		CCSRCH220J50
C	3457(A,29,30)		CEJQ100M16
C	3459(B,55,41)		CKSRYB103K50
C	3460(B,55,36)		CKSRYB103K50
C	3461(A,58,42)		CEAT100M50
C	3462(A,58,35)		CEAT100M50
C	3463(B,47,49)		CKSRYB105K6R3
C	3466(B,39,42)		CKSRYB104K16
C	3467(B,57,26)		CKSRYB104K16
C	3470(A,63,45)		CEAT100M50
C	3471(B,71,28)		CKSRYB104K16
C	3475(B,125,31)		CKSRYB104K16
C	3476(B,125,35)		CKSRYB103K50
C	3478(B,127,35)		CKSRYB472K50
C	3481(B,99,23)		CCSRCH221J50
C	3482(B,123,23)		CCSRCH221J50
C	3483(A,92,32)		CEAT100M50
C	3484(A,116,31)		CEAT100M50
C	3485(B,95,36)		CCSRCH101J50
C	3486(B,111,26)		CCSRCH101J50
C	3489(B,107,32)		CKSRYB103K50
C	3490(B,112,38)		CKSRYB103K50
C	3491(A,110,34)	ELECT. CAPACITOR	CEAT330M25
C	3492(A,112,43)	ELECT. CAPACITOR	CEAT330M25
C	3495(B,125,27)		CKSRYB103K50
C	3496(B,95,23)		CKSRYB103K50
C	3497(B,65,48)		CKSRYB104K16
C	3498(B,63,48)		CKSRYB103K50
C	3499(B,60,49)		CKSRYB102K50
C	3503(B,8,31)		CKSRYB104K16

D HEADPHONE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
KN	3551(A,125,118)	WRAPPING TERMINAL	VNF1084
CN	3551(A,134,114)	4P JUMPER CONNECTOR	52147-0410
	3551(A,125,73)	PHONE JACK	AKN7029

RESISTORS

Mark	No.	Description	Part No.
R	3551(B,130,85)		RS1/16S102J
R	3552(B,133,111)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3551(B,134,98)		CKSRYB392K50
C	3552(B,120,88)		CKSRYB392K50
C	3553(B,120,93)		CKSRYB471K50
C	3554(B,118,93)		CKSRYB103K50
C	3555(B,116,93)		CKSRYB104K16

E BRIDGE 1 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
CN	5431(A,152,224)	13P PLUG	XKP3066
CN	5432(A,165,176)	13P PLUG	XKP3066
CN	5433(A,191,225)	CONNECTOR	CKS1726
CN	5434(A,170,175)	CONNECTOR	CKS1726

F BRIDGE 2 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
CN	5441(A,200,98)	CONNECTOR	CKS3382
CN	5442(A,215,117)	15P PLUG	XKP3067
CN	5443(A,239,119)	17P PLUG	XKP3068

G TRANS SIDE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
L	4401(B,307,6)	INDUCTOR	CTF1385
L	4402(B,307,8)	INDUCTOR	CTF1385
L	4403(B,307,10)	INDUCTOR	CTF1385
L	4404(B,307,14)	INDUCTOR	CTF1385
L	4405(B,307,16)	INDUCTOR	CTF1385
L	4406(B,307,18)	INDUCTOR	CTF1385
L	4407(B,307,20)	INDUCTOR	CTF1385
L	4408(B,307,22)	INDUCTOR	CTF1385
L	4409(B,307,24)	INDUCTOR	CTF1385
L	4410(B,307,26)	INDUCTOR	CTF1385
L	4411(B,307,28)	INDUCTOR	CTF1385
L	4412(B,307,30)	INDUCTOR	CTF1385
L	4413(B,307,32)	INDUCTOR	CTF1385
J	5	JUMPER WIRE	D20PDY0410E
CN	4402(A,319,21)	L-PLUG(13P)	KM200NA13L
CN	4403(A,83,30)	CONNECTOR	CKS3382

Mark	No.	Description	Part No.
	4401(A,61,9)	4P CABLE HOLDER	51048-0400

H BRIDGE 3 ASSY

MISCELLANEOUS

CN	5451(A,169,100)	15P CONNECTOR	52044-1545
CN	5452(A,140,100)	19P CONNECTOR	52044-1945
CN	5453(A,135,134)	23P PLUG	XKP3071
CN	5454(A,126,166)	23P PLUG	XKP3071
CN	5455(A,169,166)	15P PLUG	XKP3067

RESISTORS

R	5451(B,148,161)		RS1/16S0R0J
R	5452(B,146,159)		RS1/16S0R0J
R	5453(B,143,161)		RS1/16S0R0J
R	5454(B,141,159)		RS1/16S0R0J
R	5455(B,138,161)		RS1/16S0R0J
R	5456(B,184,161)		RS1/16S0R0J
R	5457(B,179,161)		RS1/16S0R0J
R	5458(B,176,159)		RS1/16S0R0J
R	5459(B,174,161)		RS1/16S0R0J
R	5460(B,171,159)		RS1/16S0R0J

CAPACITORS

C	5451(B,160,106)		CKSRYB104K16
C	5452(B,164,106)		CKSRYB104K16

I COMPOSITE V ASSY

MISCELLANEOUS

IC	2001(A,134,86)	LOGIC IC	TC74HC4051AFT
IC	2002(A,136,69)	LOGIC IC	TC74HC4051AFT
IC	2003(A,153,86)	LOGIC IC	TC74HC4052AFT
IC	2004(A,149,69)	LOGIC IC	TC74HC4052AFT
IC	2007(A,142,50)	CHARACTER GENERATOR	PDC162A
IC	2008(A,154,102)	LOGIC IC	TC4094BFN
IC	2009(A,156,113)	LOGIC IC	TC4094BFN
IC	2010(A,132,109)	VIDEO AMP IC	LA7109
Q	2001(A,154,47)	TRANSISTOR	2SC4154
Q	2081(A,159,32)	TRANSISTOR	2SC4154
D	2001(A,142,31)	DIODE	MC2846-11
D	2002(A,161,49)	DIODE	MC2846-11
D	2003(A,162,55)	DIODE	MC2846-11
D	2004(B,157,111)	DIODE	DAN217U
D	2005(B,113,108)	DIODE	DAN217U
D	2006(B,113,80)	DIODE	DAN217U
D	2007(B,113,52)	DIODE	DAN217U
D	2008(B,113,127)	DIODE	DAN217U
L	2001(A,128,43)	AXIAL INDUCTOR	LAU330J
JA	2005(A,104,130)	PIN JACK(1P)	AKB7175
X	2001(A,129,55)	CRYSTAL RESONATOR	ASS7080
CN	2001(A,135,24)	19P SOCKET	XKP3080
CN	2002(A,160,123)	17P SOCKET	XKP3079
	2001(A,104,109)	PIN JACK(2P)	AKB7176
	2002(A,104,81)	PIN JACK(2P)	AKB7176
	2004(A,104,25)	PIN JACK(2P)	AKB7176
	2003(A,104,53)	PIN JACK(2P)	AKB7176

RESISTORS

Mark	No.	Description	Part No.
R	2001(B,113,117)		RS1/16S750J
R	2002(B,113,103)		RS1/16S750J
R	2003(B,113,89)		RS1/16S750J
R	2004(B,113,75)		RS1/16S750J
R	2005(B,113,47)		RS1/16S750J
R	2006(B,113,19)		RS1/16S750J
R	2010(B,138,105)		RS1/16S103J
R	2012(B,138,114)		RS1/16S103J
R	2013(B,138,117)		RS1/16S103J
R	2014(B,138,101)		RS1/16S103J
R	2015(B,138,111)		RS1/16S103J
R	2019(A,124,112)		RS1/16S750J
R	2020(A,122,101)		RS1/16S750J
R	2021(A,122,106)		RS1/16S750J
R	2022(A,126,121)		RS1/16S0R0J
R	2025(A,147,98)		RS1/16S473J
R	2026(A,128,84)		RS1/16S473J
R	2027(A,130,84)		RS1/16S473J
R	2028(B,138,63)		RS1/16S473J
R	2029(B,138,67)		RS1/16S473J
R	2030(B,138,65)		RS1/16S473J
R	2034(A,138,92)		RS1/16S473J
R	2035(A,122,109)		RS1/16S473J
R	2040(A,133,33)		RS1/16S331J
R	2041(A,132,36)		RS1/16S331J
R	2042(A,134,36)		RS1/16S331J
R	2043(A,151,43)		RS1/16S512J
R	2044(A,154,43)		RS1/16S392J
R	2045(A,153,49)		RS1/16S103J
R	2047(A,150,54)		RS1/16S102J
R	2060(A,152,32)		RS1/16S0R0J
R	2065(A,128,125)		RS1/16S0R0J
R	2070(A,149,120)		RS1/16S0R0J
R	2071(A,147,120)		RS1/16S0R0J
R	2072(B,113,115)		RS1/16S0R0J
R	2082(A,151,30)		RS1/16S0R0J
R	2084(A,162,32)		RS1/16S103J
R	2085(A,156,30)		RS1/16S472J
R	2086(A,147,111)		RS1/16S103J
R	2087(B,128,116)		RS1/16S103J

CAPACITORS

C	2001(A,138,83)		CKSRYB103K50
C	2002(A,130,90)		CKSRYB103K50
C	2003(A,141,67)		CKSRYB103K50
C	2004(A,132,73)		CKSRYB103K50
C	2005(A,157,84)		CKSRYB103K50
C	2006(A,149,90)		CKSRYB103K50
C	2007(A,154,66)		CKSRYB103K50
C	2008(A,145,72)		CKSRYB103K50
C	2010(A,144,102)		CEAT101M10
C	2012(A,144,108)		CEAT101M10
C	2013(A,144,114)		CEAT101M10
C	2015(A,128,97)		CEAT101M10
C	2016(A,136,98)		CEAT101M10
C	2017(A,128,100)		CKSRYB104K16
C	2018(B,138,95)		CKSRYB104K16
C	2019(A,124,111)		CCSRCH181J50
C	2020(A,122,103)		CCSRCH181J50
C	2021(A,122,104)		CCSRCH181J50
C	2025(B,150,100)		CKSRYB103K50

Mark	No.	Description	Part No.
C	2026(B,149,111)		CKSRYB103K50
C	2031(B,152,33)		CKSRYB102K50
C	2032(B,157,31)		CKSRYB102K50
C	2040(A,149,38)		CEAT101M10
C	2041(A,140,38)		CEAT101M10
C	2042(A,144,60)		CKSRYB473K25
C	2043(A,138,40)		CKSRYB473K25
C	2044(B,138,59)		CCSRCH6R0D50
C	2045(B,138,57)		CCSRCH6R0D50
C	2046(B,138,44)		CCSRCH240J50
C	2047(B,138,42)		CCSRCH240J50
C	2048(A,130,33)		CCSRCH101J50
C	2049(A,130,37)		CCSRCH101J50
C	2050(A,130,34)		CCSRCH101J50
C	2052(A,151,45)		CKSRYB103K50
C	2053(A,153,57)		CEAT101M10
C	2054(A,150,45)		CKSRYB122K50
C	2055(B,147,46)		CKSRYB122K50
C	2056(A,150,52)		CCSRCH101J50
C	2083(A,160,42)		CEAT101M10
C	2084(A,157,36)		CKSRYB103K50
C	2085(A,156,32)		CKSRYB103K50
C	2088(A,158,60)		CKSRYB103K50
C	2091(B,113,111)		CKSRYB103K50
C	2092(B,113,83)		CKSRYB103K50
C	2093(B,113,55)		CKSRYB103K50
C	2094(B,117,126)		CKSRYB473K25

J S VIDEO ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2201(A,43,65)	LOGIC IC	TC74HC4051AFT
IC	2202(A,57,67)	LOGIC IC	TC74HC4051AFT
IC	2203(A,61,89)	LOGIC IC	TC74HC4052AFT
IC	2204(A,36,96)	VIDEO AMP IC	LA7109
IC	2205(A,43,45)	LOGIC IC	TC74HC4051AFT
IC	2206(A,57,45)	LOGIC IC	TC74HC4051AFT
IC	2207(A,35,116)	IC	NJM12904V
IC	2210(A,46,116)	LOGIC IC	TC4094BFN
IC	2211(A,66,114)	LOGIC IC	TC4094BFN
Q	2201(A,30,122)	TRANSISTOR	RT1N241M
Q	2202(B,71,56)	TRANSISTOR	2SC4154
Q	2203(B,64,47)	TRANSISTOR	2SC4154
D	2201(A,31,114)	DIODE	1SS352
D	2202(A,57,117)	DIODE	MC2846-11
D	2203(B,73,113)	DIODE	DAN217U
D	2204(B,21,94)	DIODE	DAN217U
D	2205(B,21,52)	DIODE	DAN217U
D	2206(B,21,24)	DIODE	DAN217U
D	2207(B,21,129)	DIODE	DAN217U
JA	2201(A,12,130)	PIN JACK(1P)	AKB7175
JA	2202(A,12,88)	SOCKET	XKB3052
JA	2203(A,12,53)	SOCKET	XKB3051
JA	2204(A,12,25)	SOCKET	XKB3051
CN	2201(A,67,24)	17P SOCKET	XKP3079
CN	2202(A,49,123)	15P SOCKET	XKP3078

RESISTORS

Mark	No.	Description	Part No.
R	2201(B,23,87)		RS1/16S750J
R	2202(B,23,88)		RS1/16S750J
R	2203(B,23,73)		RS1/16S750J
R	2204(B,23,74)		RS1/16S750J
R	2205(B,23,45)		RS1/16S750J
R	2206(B,23,46)		RS1/16S750J
R	2207(B,23,17)		RS1/16S750J
R	2208(B,23,18)		RS1/16S750J
R	2221(A,42,88)		RS1/16S103J
R	2222(A,48,93)		RS1/16S103J
R	2224(B,48,95)		RS1/16S103J
R	2225(A,44,102)		RS1/16S103J
R	2227(A,29,96)		RS1/16S750J
R	2228(A,28,100)		RS1/16S750J
R	2233(B,27,57)		RS1/16S750J
R	2234(B,27,62)		RS1/16S750J
R	2239(B,29,29)		RS1/16S750J
R	2240(B,27,34)		RS1/16S750J
R	2245(A,36,111)		RS1/16S103J
R	2246(A,32,114)		RS1/16S471J
R	2247(A,31,118)		RS1/16S274J
R	2261(B,29,130)		RS1/16S750J
R	2265(A,52,115)		RS1/16S473J
R	2266(A,52,116)		RS1/16S473J
R	2267(A,52,118)		RS1/16S473J
R	2268(A,41,112)		RS1/16S473J
R	2269(B,63,103)		RS1/16S473J
R	2270(A,72,113)		RS1/16S473J
R	2271(A,72,114)		RS1/16S473J
R	2272(A,71,117)		RS1/16S473J
R	2277(B,53,115)		RS1/16S0R0J
R	2278(B,57,115)		RS1/16S0R0J
R	2279(B,44,24)		RS1/16S0R0J
R	2280(B,44,26)		RS1/16S0R0J
R	2282(B,71,48)		RS1/16S472J
R	2283(A,60,118)		RS1/16S103J
R	2296(B,72,64)		RS1/16S103J
R	2297(B,72,51)		RS1/16S472J
R	2299(B,69,48)		RS1/16S103J

CAPACITORS

Mark	No.	Description	Part No.
C	2202(B,27,90)		CKSRYB104K16
C	2204(B,27,77)		CKSRYB104K16
C	2206(B,27,48)		CKSRYB104K16
C	2208(B,28,25)		CKSRYB104K16
C	2211(A,46,63)		CKSRYB104K16
C	2212(A,39,69)		CKSRYB104K16
C	2213(A,61,64)		CKSRYB104K16
C	2214(A,53,70)		CKSRYB104K16
C	2215(A,46,41)		CKSRYB104K16
C	2216(A,39,48)		CKSRYB104K16
C	2217(A,60,42)		CKSRYB104K16
C	2218(A,53,48)		CKSRYB104K16
C	2219(A,58,85)		CKSRYB103K50
C	2220(A,64,92)		CKSRYB103K50
C	2221(A,50,88)		CEAT101M10
C	2222(A,51,93)		CKSRYB104K16
C	2224(A,50,98)		CEAT101M10
C	2225(A,45,102)		CKSRYB104K16
C	2227(A,27,96)		CCSRCH181J50
C	2228(A,30,99)		CCSRCH181J50

Mark	No.	Description	Part No.
	C 2229(A,28,101)		CKSRYB104K16
	C 2230(B,17,91)		CKSRYB103K50
	C 2231(B,21,96)		CKSRYB474K10
	C 2233(B,23,59)		CCSRCH181J50
	C 2234(B,23,60)		CCSRCH181J50
	C 2235(B,27,64)		CKSRYB104K16
	C 2236(B,21,54)		CKSRYB103K50
	C 2239(B,23,31)		CCSRCH181J50
	C 2240(B,23,32)		CCSRCH181J50
	C 2241(B,27,36)		CKSRYB104K16
	C 2242(B,21,26)		CKSRYB103K50
	C 2245(A,36,109)		CKSRYB104K16
	C 2246(A,26,115)		CEAT100M50
	C 2247(A,32,118)		CKSRYB103K50
	C 2251(B,48,34)		CKSRYB102K50
	C 2252(B,38,35)		CKSRYB102K50
	C 2259(B,25,130)		CCSRCH181J50
	C 2261(B,25,127)		CKSRYB103K50
	C 2262(B,23,127)		CKSRYB104K16
	C 2265(A,44,109)		CKSRYB103K50
	C 2266(A,65,107)		CKSRYB103K50
	C 2279(A,50,29)		CEAT101M16
	C 2280(A,44,29)		CEAT101M16
	C 2285(A,44,83)		CEAT101M10
	C 2286(A,36,81)		CEAT101M10
	C 2287(A,35,86)		CKSRYB104K16
	C 2288(A,36,106)		CKSRYB104K16
	C 2291(B,68,56)		CKSRYB103K50
	C 2292(B,68,52)		CKSRYB103K50
	C 2293(B,61,42)		CKSRYB103K50
	C 2294(B,67,52)		CKSRYB103K50
	C 2296(A,69,63)		CEAL220M10
	C 2297(B,67,45)		CKSRYB104K16

K COMPONENT & VOL ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 2401(A,65,45)	MULTIPLEXER(4CH*2)	TC74LVX4052FT
	IC 2402(A,44,45)	MULTIPLEXER(4CH*2)	TC74LVX4052FT
	IC 2404(A,73,64)	MULTIPLEXER(2CH*3)	TC74LVX4053FT
	IC 2405(B,44,66)	VIDEO IC	NJM2581M
	IC 2407(B,71,118)	LOGIC IC	TC4094BFN
	IC 2408(A,75,139)	IC	TC74VHCT08AFTS1
	IC 2409(A,57,32)	IC	NJM12904V
	IC 2410(A,77,117)	IC	TC7SH08FUS1
	IC 2501(A,159,110)	OP-AMP IC	UPC4570G2
	IC 2525(A,197,110)	OP-AMP IC	UPC4570G2
	IC 2551(A,178,110)	OP-AMP IC	UPC4570G2
	IC 2575(A,216,110)	OP-AMP IC	UPC4570G2
	IC 2630(B,159,40)	IC	TC4066BFN
	IC 2631(A,135,61)	IC	TC4053BFN
	IC 2632(A,145,38)	OP-AMP IC	BA4560RF
	IC 2633(A,154,61)	OP-AMP IC	BA4560RF
	IC 2634(A,147,61)	OP-AMP IC	BA4560RF
	IC 2635(A,174,61)	IC	TC4052BFN
	IC 2636(A,201,68)	8CH E-VOL	R2S15205FP
	IC 2637(A,145,85)	2CH E-VOL	M61545FP
	IC 2640(A,134,147)	LOGIC IC	TC4094BFN
	IC 2701(A,43,124)	RDS DECORDER IC	LC72725KM

Mark	No.	Description	Part No.
	Q 2401(A,76,28)	TRANSISTOR(SC-70)	2SA1602A
	Q 2402(A,73,28)	TRANSISTOR(SC-70)	2SA1602A
	Q 2403(A,86,27)	TRANSISTOR(SC-70)	2SA1602A
	Q 2404(A,92,31)	TRANSISTOR(SC-70)	2SA1602A
	Q 2405(A,83,27)	TRANSISTOR(SC-70)	2SA1602A
	Q 2406(A,92,28)	TRANSISTOR(SC-70)	2SA1602A
⚠	Q 2407(B,48,33)	TRANSISTOR	2SC4154
⚠	Q 2408(B,43,28)	TRANSISTOR(SC-70)	2SA1602A
	Q 2420(A,65,31)	TRANSISTOR	RT1N241M
	Q 2630(B,114,26)	TRANSISTOR	RT1N241M
	Q 2631(A,164,44)	TRANSISTOR	RT1N241M
	Q 2632(B,118,26)	TRANSISTOR	RT1N241M
	Q 2633(B,111,32)	TRANSISTOR	RT1N241M
	Q 2639(B,108,149)	DIGITAL TR(SC-70)	RT1P241M
	Q 2640(B,115,148)	DIGITAL TR(SC-70)	RT1P241M
⚠	Q 2641(A,194,30)	TRANSISTOR	2SD1858X
⚠	Q 2642(A,178,30)	TRANSISTOR	2SB1238X
	Q 2645(A,168,46)	DIGITAL TR(SC-70)	RT1P241M
	Q 2771(B,44,149)	TRANSISTOR	2SD1664
	D 2401(B,56,24)	DIODE	1SS352
	D 2402(B,48,24)	DIODE	1SS352
	D 2403(A,58,28)	DIODE	1SS352
	D 2411(B,23,60)	DIODE	DAN217U
	D 2412(B,23,32)	DIODE	DAN217U
	D 2413(B,23,16)	DIODE	DAN217U
	D 2414(B,23,74)	DIODE	DAN217U
	D 2504(A,129,38)	DIODE	DAN217
	D 2505(A,134,38)	DIODE	DAN217
	D 2517(B,188,22)	DIODE	UDZS7R5(B)
	D 2518(B,183,22)	DIODE	UDZS7R5(B)
	D 2519(B,156,150)	DIODE	1SS352
	D 2613(B,192,56)	DIODE	DAN217
	D 2753(B,33,135)	CHIP DIODE	RB501V-40
	D 2754(B,33,133)	CHIP DIODE	RB501V-40
	D 2755(B,30,108)	DIODE	1SS352
	D 2761(B,89,147)	DIODE	1SS352
	D 2772(B,49,146)	DIODE	UDZS10(B)
	L 2752(B,34,137)	CHIP SOLID INDUCTOR	QTL1013
	L 2754(B,32,128)	CHIP SOLID INDUCTOR	QTL1013
	L 2756(B,32,121)	CHIP SOLID INDUCTOR	QTL1013
	L 2760(B,28,141)	INDUCTOR	CTF1385
	L 2762(B,33,93)	CHIP SOLID INDUCTOR	QTL1013
	L 2763(B,31,114)	CHIP SOLID INDUCTOR	QTL1013
	L 2764(B,31,112)	CHIP SOLID INDUCTOR	QTL1013
	L 2765(B,33,105)	CHIP SOLID INDUCTOR	QTL1013
	L 2766(B,33,103)	CHIP SOLID INDUCTOR	QTL1013
	L 2767(B,32,98)	INDUCTOR	CTF1385
	L 2768(B,41,135)	CHIP SOLID INDUCTOR	QTL1013
	JA 2401(A,15,68)	6P RCA PINJACK	XKB3053
	JA 2402(A,15,26)	6P RCA PINJACK	XKB3053
	JA 2702(A,15,125)	JACK	AKN-209
	JA 2703(A,17,138)	JACK	RKN1004
	JA 2704(A,17,93)	JACK	RKN1004
	JA 2705(A,15,103)	MINI JACK(4P) /W SW	XKN3015
	KN 2701(A,15,147)	SCREW PLATE	VNE1948
	X 2761(A,49,116)	CRYSTAL RESONATOR	ASS7004
	CN 2402(A,49,14)	CONNECTOR(07P)	TUC-P07X-B1
	CN 2403(A,90,18)	17P SOCKET	XKP3079
	CN 2409(A,51,78)	CONNECTOR	CKS3382
	CN 2501(A,191,14)	PLUG	CKS1758

Mark	No.	Description	Part No.
CN	2502(A,109,47)	CONNECTOR	CKS3380
CN	2503(A,153,14)	PLUG	CKS1764
CN	2504(A,173,143)	13P SOCKET	XKP3077
CN	2505(A,102,14)	PLUG	CKS1758
CN	2506(A,226,18)	11P SOCKET	XKP3076
CN	2507(A,212,146)	PLUG	CKS1760
CN	2601(A,116,107)	CONNECTOR	CKS3384
CN	2602(A,109,99)	CONNECTOR	CKS3389
CN	2603(A,109,70)	CONNECTOR	CKS3384
CN	2702(A,69,151)	CONNECTOR	CKS3376
CN	2703(A,77,148)	07P CONNECTOR	RKN1048
	2702(A,86,150)	PCB BINDER	VEF1040
	2701(A,97,143)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	2401(B,33,84)		RS1/16S750J
R	2402(B,33,69)		RS1/16S750J
R	2403(B,33,54)		RS1/16S750J
R	2404(B,33,42)		RS1/16S750J
R	2405(B,33,28)		RS1/16S750J
R	2406(B,33,18)		RS1/16S750J
R	2407(B,33,38)		RS1/16S750J
R	2408(B,33,25)		RS1/16S750J
R	2409(B,25,11)		RS1/16S750J
R	2410(A,76,31)		RS1/16S102J
R	2411(A,73,31)		RS1/16S184J
R	2412(A,80,31)		RS1/16S184J
R	2413(B,80,32)		RS1/16S0R0J
R	2414(B,84,37)		RS1/16S0R0J
R	2415(A,71,26)		RS1/16S114J
R	2416(B,81,24)		RS1/16S0R0J
R	2417(A,81,27)		RS1/16S114J
R	2418(A,84,31)		RS1/16S102J
R	2419(A,89,30)		RS1/16S102J
R	2420(A,86,30)		RS1/16S184J
R	2421(B,90,37)		RS1/16S0R0J
R	2422(B,88,25)		RS1/16S0R0J
R	2423(A,91,26)		RS1/16S114J
R	2424(B,92,22)		RS1/16S0R0J
R	2425(A,79,115)		RS1/16S473J
R	2435(A,73,127)		RS1/16S101J
R	2437(A,74,127)		RS1/16S101J
R	2439(B,34,77)		RS1/16S750J
R	2440(B,33,63)		RS1/16S750J
R	2441(B,33,49)		RS1/16S750J
R	2443(B,82,119)		RS1/16S473J
R	2444(B,82,117)		RS1/16S473J
R	2445(A,62,118)		RS1/16S473J
R	2446(B,55,111)		RS1/16S473J
R	2447(A,65,123)		RS1/16S473J
R	2448(A,63,123)		RS1/16S473J
R	2449(B,55,113)		RS1/16S473J
R	2451(B,48,30)		RS1/16S153J
R	2452(B,43,25)		RS1/16S153J
R	2453(A,49,33)		RS1/16S333J
R	2454(A,44,27)		RS1/16S333J
R	2477(B,65,32)		RS1/16S103J
R	2478(B,58,28)		RS1/16S471J
R	2479(A,65,28)		RS1/16S274J
R	2480(A,65,34)		RS1/16S0R0J

Mark	No.	Description	Part No.
R	2490(B,78,139)		RS1/16S0R0J
R	2491(B,77,139)		RS1/16S0R0J
R	2502(A,142,101)		RS1/16S0R0J
R	2509(B,161,98)		RS1/16S223J
R	2510(B,157,98)		RS1/16S223J
R	2513(A,165,109)		RS1/16S682J
R	2514(A,153,109)		RS1/16S682J
R	2515(B,163,108)		RS1/16S122J
R	2516(B,155,108)		RS1/16S122J
R	2517(B,162,110)		RS1/16S0R0J
R	2518(B,156,110)		RS1/16S0R0J
R	2519(A,165,111)		RS1/16S183J
R	2520(A,154,111)		RS1/16S183J
R	2521(B,164,112)		RS1/16S0R0J
R	2522(B,155,112)		RS1/16S0R0J
R	2523(B,164,118)		RS1/16S104J
R	2524(B,154,118)		RS1/16S104J
R	2533(B,199,98)		RS1/16S223J
R	2534(B,195,98)		RS1/16S223J
R	2537(A,203,109)		RS1/16S682J
R	2538(A,191,109)		RS1/16S682J
R	2539(B,201,108)		RS1/16S122J
R	2540(B,193,108)		RS1/16S122J
R	2541(B,200,110)		RS1/16S0R0J
R	2542(B,194,110)		RS1/16S0R0J
R	2543(A,203,111)		RS1/16S183J
R	2544(A,192,111)		RS1/16S183J
R	2545(B,202,112)		RS1/16S0R0J
R	2546(B,193,112)		RS1/16S0R0J
R	2547(B,202,118)		RS1/16S104J
R	2548(B,192,118)		RS1/16S104J
R	2559(B,180,98)		RS1/16S223J
R	2560(B,176,98)		RS1/16S223J
R	2563(A,184,109)		RS1/16S682J
R	2564(A,172,109)		RS1/16S682J
R	2565(B,182,108)		RS1/16S122J
R	2566(B,174,108)		RS1/16S122J
R	2567(B,181,110)		RS1/16S0R0J
R	2568(B,175,110)		RS1/16S0R0J
R	2569(A,184,111)		RS1/16S183J
R	2570(A,173,111)		RS1/16S183J
R	2571(B,183,112)		RS1/16S0R0J
R	2572(B,174,112)		RS1/16S0R0J
R	2573(B,183,118)		RS1/16S104J
R	2574(B,173,118)		RS1/16S104J
R	2583(B,218,98)		RS1/16S223J
R	2584(B,214,98)		RS1/16S223J
R	2587(A,222,109)		RS1/16S682J
R	2588(A,210,109)		RS1/16S682J
R	2589(B,220,108)		RS1/16S122J
R	2590(B,212,108)		RS1/16S122J
R	2591(B,219,110)		RS1/16S0R0J
R	2592(B,213,110)		RS1/16S0R0J
R	2593(A,222,111)		RS1/16S183J
R	2594(A,211,111)		RS1/16S183J
R	2595(B,221,112)		RS1/16S0R0J
R	2596(B,212,112)		RS1/16S0R0J
R	2597(B,221,118)		RS1/16S104J
R	2598(B,211,118)		RS1/16S104J
R	2601(B,108,138)		RS1/16S473J

Mark	No. Description	Part No.
R	2625(A,147,31)	RS1/16S242J
R	2626(A,148,45)	RS1/16S242J
R	2627(A,152,36)	RS1/16S101J
R	2628(A,153,43)	RS1/16S101J
R	2629(A,148,33)	RS1/16S272J
R	2630(A,149,43)	RS1/16S272J
R	2631(A,145,33)	RS1/16S0R0J
R	2632(A,146,43)	RS1/16S0R0J
R	2633(A,142,33)	RS1/16S222J
R	2634(A,143,43)	RS1/16S222J
R	2635(A,141,31)	RS1/16S101J
R	2636(A,142,45)	RS1/16S101J
R	2637(B,137,35)	RS1/16S473J
R	2638(B,137,40)	RS1/16S473J
R	2641(A,154,67)	RS1/16S472J
R	2642(A,154,56)	RS1/16S472J
R	2643(A,157,67)	RS1/16S101J
R	2644(A,157,56)	RS1/16S101J
R	2645(A,144,67)	RS1/16S113J
R	2646(A,144,56)	RS1/16S113J
R	2647(A,142,68)	RS1/16S0R0J
R	2648(A,142,55)	RS1/16S0R0J
R	2649(A,144,68)	RS1/16S153J
R	2650(A,144,54)	RS1/16S153J
R	2651(A,147,67)	RS1/16S113J
R	2652(A,147,56)	RS1/16S113J
R	2653(A,151,67)	RS1/16S472J
R	2654(A,151,56)	RS1/16S472J
R	2655(B,163,64)	RS1/16S474J
R	2656(B,163,58)	RS1/16S474J
R	2663(A,191,53)	RS1/16S102J
R	2664(A,191,55)	RS1/16S102J
R	2670(B,161,85)	RS1/16S0R0J
R	2673(B,205,33)	RS1/16S0R0J
R	2681(B,135,89)	RS1/16S104J
R	2682(B,135,85)	RS1/16S104J
R	2683(A,141,95)	RS1/16S102J
R	2684(A,141,94)	RS1/16S102J
R	2685(B,196,25)	RS1/16S472J
R	2686(B,176,25)	RS1/16S472J
R	2687(B,194,25)	RS1/16S101J
R	2688(B,178,25)	RS1/16S101J
R	2689(A,169,43)	RS1/16S473J
R	2690(B,114,31)	RS1/16S473J
R	2691(B,116,31)	RS1/16S473J
R	2692(B,110,36)	RS1/16S473J
R	2693(A,131,135)	RS1/16S473J
R	2694(A,133,134)	RS1/16S471J
R	2695(A,128,135)	RS1/16S473J
R	2696(A,126,134)	RS1/16S471J
R	2701(B,149,142)	RS1/16S0R0J
R	2771(B,37,148)	RS1/16S0R0J
R	2772(B,50,149)	RS1/16S391J
R	2777(A,51,125)	RS1/16S102J
R	2778(A,51,122)	RS1/16S102J
R	2779(A,38,119)	RS1/16S473J

CAPACITORS

Mark	No. Description	Part No.
C	2410(A,74,31)	CKSRYB103K50
C	2411(A,64,41)	CKSRYB103K50
C	2412(A,67,49)	CKSRYB103K50
C	2413(A,82,31)	CKSRYB103K50
C	2414(A,69,25)	CKSRYB103K50
C	2415(A,42,41)	CKSRYB103K50
C	2416(A,46,49)	CKSRYB103K50
C	2417(A,87,30)	CKSRYB103K50
C	2418(A,79,27)	CKSRYB103K50
C	2419(A,70,60)	CKSRYB103K50
C	2420(A,74,68)	CKSRYB103K50
C	2424(A,60,67)	CEAT101M10
C	2425(A,60,61)	CEAT101M10
C	2426(A,60,55)	CEAT101M10
C	2427(B,41,59)	CKSRYB104K16
C	2428(B,46,73)	CKSRYB104K16
C	2429(A,89,26)	CKSRYB103K50
C	2430(A,81,39)	CEAT100M50
C	2431(A,45,59)	CEAT101M10
C	2432(A,42,73)	CEAT101M10
C	2433(A,86,38)	CEAT100M50
C	2438(B,63,123)	CKSRYB103K50
C	2439(A,47,33)	CKSRYB224K10
C	2440(A,42,27)	CKSRYB224K10
C	2453(B,23,58)	CKSRYB103K50
C	2454(B,23,30)	CKSRYB103K50
C	2455(B,23,18)	CKSRYB103K50
C	2456(B,25,79)	CKSRYB103K50
C	2457(A,92,38)	CEAT100M50
C	2460(B,94,18)	CKSRYB104K16
C	2463(A,79,127)	CKSRYB103K50
C	2465(B,68,142)	CKSRYB103K50
C	2466(B,68,141)	CKSRYB224K10
C	2467(B,71,142)	CKSRYB152K50
C	2471(A,49,27)	CEAT101M16
C	2472(A,41,23)	CEAT101M16
C	2474(B,23,72)	CKSRYB474K10
C	2481(A,74,135)	CKSRYB103K50
C	2482(B,65,34)	CKSRYB104K16
C	2483(A,60,25)	CEAT100M50
C	2484(A,79,117)	CKSRYB103K50
C	2503(A,164,97)	CEAT4R7M50
C	2504(A,154,97)	CEAT4R7M50
C	2511(A,166,111)	CCSRCH101J50
C	2512(A,152,111)	CCSRCH101J50
C	2513(A,161,114)	CKSRYB103K50
C	2514(A,157,114)	CKSRYB103K50
C	2515(A,165,115)	CEAT470M25
C	2516(A,153,115)	CEAT470M25
C	2527(A,202,97)	CEAT4R7M50
C	2528(A,192,97)	CEAT4R7M50
C	2535(A,204,111)	CCSRCH101J50
C	2536(A,190,111)	CCSRCH101J50
C	2537(A,199,114)	CKSRYB103K50
C	2538(A,195,114)	CKSRYB103K50
C	2539(A,203,115)	CEAT470M25
C	2540(A,191,115)	CEAT470M25
C	2553(A,183,97)	CEAT4R7M50
C	2554(A,173,97)	CEAT4R7M50

Mark	No.	Description	Part No.
C	2561(A,185,111)		CCSRCH101J50
C	2562(A,171,111)		CCSRCH101J50
C	2563(A,180,114)		CKSRYB103K50
C	2564(A,176,114)		CKSRYB103K50
C	2565(A,184,115)		CEAT470M25
C	2566(A,172,115)		CEAT470M25
C	2577(A,221,97)		CEAT4R7M50
C	2578(A,211,97)		CEAT4R7M50
C	2585(A,223,111)		CCSRCH101J50
C	2586(A,209,111)		CCSRCH101J50
C	2587(A,218,114)		CKSRYB103K50
C	2588(A,214,114)		CKSRYB103K50
C	2589(A,222,115)		CEAT470M25
C	2590(A,210,115)		CEAT470M25
C	2621(A,140,146)		CKSRYB103K50
C	2623(B,169,145)		CKSRYB104K16
C	2624(A,131,133)		CKSRYB472K50
C	2625(A,128,133)		CKSRYB472K50
C	2626(A,191,24)		CEAT2R2M50
C	2627(A,183,24)		CEAT2R2M50
C	2628(A,193,37)		CEAT100M50
C	2629(A,184,37)		CEAT100M50
C	2631(A,169,66)		CKSRYB103K50
C	2632(A,178,56)		CKSRYB103K50
C	2633(A,144,31)		CCSRCH101J50
C	2634(A,145,45)		CCSRCH101J50
C	2635(A,149,39)		CKSRYB103K50
C	2636(A,149,35)		CKSRYB103K50
C	2637(A,139,34)		CEAT100M50
C	2638(A,140,42)		CEAT100M50
C	2639(A,154,68)		CCSRCH220J50
C	2640(A,154,54)		CCSRCH220J50
C	2641(A,158,60)		CKSRYB103K50
C	2642(A,151,63)		CKSRYB103K50
C	2643(A,147,68)		CCSRCH220J50
C	2644(A,147,54)		CCSRCH220J50
C	2645(A,161,65)		CEAT100M50
C	2646(A,161,57)		CEAT100M50
C	2647(A,151,60)		CKSRYB103K50
C	2648(A,144,63)		CKSRYB103K50
C	2649(B,162,34)		CKSRYB103K50
C	2650(B,152,45)		CKSRYB103K50
C	2651(A,142,60)		CKSRYB103K50
C	2652(A,129,65)		CKSRYB103K50
C	2661(A,188,59)		CKSRYB103K50
C	2662(A,195,57)		CKSRYB103K50
C	2663(A,190,84)		CEAT101M16
C	2664(A,184,84)		CEAT101M16
C	2665(A,203,84)		CEAT101M16
C	2666(A,196,84)		CEAT101M16
C	2667(A,215,84)		CEAT101M16
C	2668(A,209,84)		CEAT101M16
C	2669(A,227,84)		CEAT101M16
C	2670(A,221,84)		CEAT101M16
C	2671(A,191,58)		CCSRCH101J50
C	2672(A,191,56)		CCSRCH101J50
C	2681(B,143,83)		CKSRYB103K50
C	2682(A,153,84)		CEAT100M50
C	2683(A,160,87)		CEAT2R2M50
C	2684(A,160,82)		CEAT2R2M50

Mark	No.	Description	Part No.
C	2685(A,137,90)		CEAT2R2M50
C	2686(A,137,84)		CEAT2R2M50
C	2687(A,142,92)		CCSRCH101J50
C	2688(A,142,90)		CCSRCH101J50
C	2695(A,116,92)	ELECT. CAPACITOR	CEAT470M25
C	2696(A,116,85)	ELECT. CAPACITOR	CEAT470M25
C	2760(B,41,130)		CKSRYB472K50
C	2764(A,39,129)		CCSRCH561J50
C	2765(A,37,111)		CEAT101M10
C	2766(A,38,118)		CCSRCH102J50
C	2767(B,44,114)		CCSRCH270J50
C	2768(B,48,113)		CCSRCH270J50
C	2769(A,46,133)		CEAT100M50
C	2771(A,46,144)		CEAT101M16
C	2773(A,40,146)		CEAT101M16
C	2779(B,31,89)		CKSRYB104K16
C	2783(B,23,117)		CKSRYB104K16
C	2784(B,23,116)		CKSRYB471K50
C	2785(B,25,133)		CKSRYB104K16
C	2786(B,25,135)		CKSRYB471K50
C	2787(B,30,150)		CKSRYB103K50
C	2788(B,30,148)		CKSRYB104K16

L DIGITAL MOTHER ASSY

SEMICONDUCTORS

IC	101		PEG395A8
IC	102		BU4842F
IC	104		BR24L32F-W
IC	105,106,111		TC74VHCT08AFTS1
IC	109,110,302		TC74VHCT125AFTS1
IC	112,305,310-312		TC74VHC08FTS1
IC	201		PEG396A
IC	202		AYW7180
IC	203		TC4094BFN
⚠ IC	204		NJM2880U1-33
IC	205		TC74LCX244FTS1
IC	206,207,210,301		TC74VHC125FTS1
IC	208		TC74VHC02FTS1
IC	209		TC74VHC04FTS1
IC	303		AK4114VQ
IC	304		TC7WHU04FU
IC	309,313,314		TC74LCX157FTS1
IC	315		TC74LCX541FTS1
IC	316,317		ML87V5002
⚠ IC	318		NJM2885DL1-33
IC	319		TC7SH08FUS1
IC	471		AK5359ET
IC	551,651,751,851		DSD1791DBR
IC	552,652,752,852		BA4560RF
⚠ IC	991		NJM2391DL1-33
Q	101-104,106		RT3P22M
Q	105,201,301		RT1N241M
Q	107		RT1N141M-11
Q	108		2SA1602A
Q	109		RT1P431M
Q	110,111		RT1P241M
Q	202		2SA1366
D	101,103,104,110		1SS352

Mark	No.	Description	Part No.
D	102,105,108,202		MC2848-11
D	106		RB520S-30
D	107		UDZS5R1(B)
D	109,301		MC2846-11
D	201		RB501V-40
D	471,472		DAN217

MISCELLANEOUS

L	101	CHIP SOLID INDUCTOR	QTL1013
L	103,201	CHIP SOLID INDUCTOR	ATL7002
L	301-305	CHIP SOLID INDUCTOR	QTL1013
L	309-318	CHIP SOLID INDUCTOR	QTL1013
L	471,472	CHIP SOLID INDUCTOR	QTL1013
L	552,561	CHIP SOLID INDUCTOR	QTL1013
L	651,652	CHIP SOLID INDUCTOR	QTL1013
L	751,752	CHIP SOLID INDUCTOR	QTL1013
L	851,852	CHIP SOLID INDUCTOR	QTL1013
JA	201	PIN JACK(2P)	AKB7173
JA	202-205	OPT. LINK IN	AKS7001
JA	207,208	OPT. LINK OUT	AKS7002
X	101	RESONATOR	CSS1716
X	201	CERAMIC RESONATOR	XSS3004
X	301	CRYSTAL RESONATOR	XSS3003
CN	101,992	13P SOCKET	XKP3077
CN	102	CONNECTOR	CKS3384
CN	103	31P CONNECTOR	VKN1262
CN	104	PLUG	CKS1760
CN	201	CONNECTOR	CKS1755
CN	202,203,991	PLUG	CKS1764
CN	204	22P CONNECTOR	RKN1063
CN	301	CONNECTOR	CKS3815
CN	302	PLUG	CKS1762
CN	303,304	26P PLUG	AKM7054

RESISTORS

R	103,111,114,117		RAB4CQ101J
R	104,106,112,120		RS1/16S104J
R	107,207		RS1/16S512J
R	118,167,171		RS1/16S222J
R	119,121,125,134		RAB4CQ101J
R	122,126-128		RS1/16S104J
R	124,147,152,153		RS1/16S473J
R	130-133,137,138		RS1/16S104J
R	142,201,205,213		RAB4CQ101J
R	143,145,150,157		RS1/16S104J
R	151,617,618,717		RS1/16S474J
R	155,203,204,206		RS1/16S473J
R	162,215,216,248		RS1/16S472J
R	166,170		RS1/16S153J
R	177		RS1/16S223J
R	180,182		RS1/16S105J
R	183,184,192,193		RS1/16S104J
R	208,241,305-308		RS1/16S101J
R	209,214,218,220		RS1/16S473J
R	211		RS1/16S103J
R	217,219,224,225		RAB4CQ101J
R	229,236,321		RAB4CQ101J
R	230,231,235		RS1/16S473J
R	237-239,242,244		RS1/16S473J
R	246		RAB4CQ473J
R	247		RS1/16S473J
R	250,251,261		RS1/16S104J
R	265-269,275,489		RS1/16S104J
R	280		RS1/16S182J
R	301,302		RS1/16S750J
R	303,304		RS1/16S220J
R	323		RS1/16SS1802F
R	381,564,664,764		RS1/16S274J
R	437,444,452		RAB4CQ470J
R	458,477,481-484		RS1/16S0R0J
R	490,562,563,662		RS1/16S104J
R	501-504,601-604		RS1/16S222J
R	505,506,509,510		RS1/16S362J
R	507,508,511,512		RS1/16S101J
R	513-516		RS1/16S122J
R	519,520,619,620		RS1/16S221J
R	521,522,981,988		RS1/16S0R0J
R	605,609,705,706		RS1/16S302J
R	606,610		RS1/16S682J
R	607,608,611,612		RS1/16S101J
R	613,615,713-716		RS1/16S152J
R	614,616		RS1/16S102J
R	663,762,763		RS1/16S104J
R	701-704,801-804		RS1/16S222J
R	707,708,711,712		RS1/16S101J
R	709,710,805,806		RS1/16S302J
R	718,817,818		RS1/16S474J
R	719,720,819,820		RS1/16S221J
R	807,808,811,812		RS1/16S101J
R	809,810		RS1/16S302J
R	813-816		RS1/16S152J
Other Resistors			RS1/16SS###J

CAPACITORS

C	102,106,110,115		CKSRYB104K16
C	103,509,510,609		CKSRYB472K50
C	104,107		CKSRYB105K16
C	108,213,375		CEHAZL101M10
C	111,113		CKSSYB103K16
C	112,114		CKSSYB153K16
C	116,117		CKSRYB473K16
C	118,481,482,607		CEAT100M50
C	119		CEAT471M6R3
C	120,122,125-127		CKSRYB104K16
C	121,301,302,478		CKSRYB103K50
C	128,203,206,212		CKSSYB104K10
C	129,317,321,326		CKSSYB471K50
C	201,204,205,208		CKSRYB104K16
C	209		CEAT331M10
C	210,215,216,218		CKSRYB104K16
C	211,374,472		CKSQYB225K10
C	217,219,228,377		CKSRYB471K50
C	221-226,316,320		CKSSYB104K10
C	227,303-308,310		CKSRYB104K16
C	309,473,556,656		CEAT101M16
C	311,314,364,371		CKSRYB104K16
C	312		CEJQ470M16
C	315,319		CEJQ101M6R3
C	322		CKSRYB474K10

Mark	No.	Description	Part No.
	C 323,324		CCSSCH100D50
	C 325,327,335,337		CKSSYB104K10
	C 328,336,338,340		CKSSYB471K50
	C 339,341,343,345		CKSSYB104K10
	C 342,344,350,352		CKSSYB471K50
	C 346,349,351,353		CKSSYB104K10
	C 347,348,476,553		CEAT101M10
	C 354,358,360,362		CKSSYB471K50
	C 357,359,361,378		CKSSYB104K10
	C 372,376,474,477		CKSRYB104K16
	C 373		CEHAZL221M10
	C 379		CKSSYB471K50
	C 479,555,563,655		CKSRYB103K50
	C 501,502,601,602		CKSRYB102K50
	C 503-506,603,605		CCSRCH331J50
	C 511,512,611,612		CKSRYB104K25
	C 554,557-559,561		CKSRYB104K16
	C 560,653,660,753		CEAT101M10
	C 604,606		CCSRCH221J50
	C 608,707,708,807		CEAT100M50
	C 610,709,710,809		CKSRYB472K50
	C 654,657-659,661		CKSRYB104K16
	C 663,755,763,855		CKSRYB103K50
	C 701,702,801,802		CKSRYB102K50
	C 703-706,803-806		CCSRCH331J50
	C 711,712,811,812		CKSRYB104K25
	C 754,757-759,761		CKSRYB104K16
	C 756,856		CEAT101M16
	C 760,853,860,992		CEAT101M10
	C 808		CEAT100M50
	C 810		CKSRYB472K50
	C 854,857-859,861		CKSRYB104K16
	C 863		CKSRYB103K50
	C 989,990		CKSRYB102K50
	C 991,996,998		CKSRYB104K16
	C 994,995		CKSRYB104K25
	C 997,999		CKSRYB471K50

M DSP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 101		ADSP-21366KBCZ-1AA
	IC 161,162		TC74VHC573FTS1
	IC 163		TC7W139FU
	IC 164		AYW7178
	IC 165		TC7SH32FUS1
	IC 171		CY7C1049D3310VXI
	IC 201		DSPC56371AF180
	IC 271		PDC163A8
	IC 401		TC74VHC08FTS1
⚠	IC 511,521		PQ1LAX95MSPQ
⚠	IC 531		BD9107FVM
	IC 751		TC7WHU04FU
	Q 751		RT1N241M

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 101,102	CHIP SOLID INDUCTOR	QTL1013
	L 161-164	CHIP SOLID INDUCTOR	QTL1013
	L 171	CHIP SOLID INDUCTOR	QTL1013
	L 201-203	CHIP SOLID INDUCTOR	QTL1013
	L 271,401	CHIP SOLID INDUCTOR	QTL1013
	L 530	CHIP BEADS	ATL7010
	L 531	POWER INDUCTOR	ATH7047
	L 751	CHIP SOLID INDUCTOR	QTL1013
	X 751	CRYSTAL RESONATOR	VSS1171
	CN 401,402	26P SOCKET	AKP7198

RESISTORS

Mark	No.	Description	Part No.
	R 101-104,161-163		RAB4CQ470J
	R 114,204,236		RAB4CQ101J
	R 123,220		RAB4CQ220J
	R 131,149		RAB4CQ472J
	R 152		RS1/16S0R0J
	R 219		RAB4CQ103J
	R 511		RS1/16SS2002F
	R 512,522		RS1/16SS1202F
	R 521		RS1/16SS1000F
	R 531		RS1/16SS9101F
	R 532		RS1/16SS1802F
	R 533		RS1/16SS1002F
	R 537		RS1/10S0R0J
	Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
	C 101,103,105,107		CKSSYB471K50
	C 102,104,106,108		CKSSYB104K10
	C 109,111,113,115		CKSSYB471K50
	C 110,112,114,116		CKSSYB104K10
	C 117,127,401,753		CKSSYB471K50
	C 118,128,131,133		CKSSYB104K10
	C 135,137,139,141		CKSSYB104K10
	C 145,228		CKSSYB103K25
	C 151,183,231,232		CEVW101M16
	C 152		ACH7275
	C 161,163,165,168		CKSSYB104K10
	C 169,171,173,201		CKSSYB104K10
	C 203,205,207,209		CKSSYB104K10
	C 211,213,215,217		CKSSYB104K10
	C 219,221,223,271		CKSSYB104K10
	C 402,754		CKSSYB104K10
	C 501,531,711		CEVW101M16
	C 511		CKSQYB105K16
	C 512,521,522		CKSRYB105K10
	C 532,534		DCH1201
	C 533		CKSSYB102K50
	C 751,752		CCSSCH100D50

N INTERFACE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	IC 4301(A,269,181)	PROTECTOR(1.6A)	AEK7012
⚠	IC 4311(B,210,218)	REGULATOR IC	NJM2885DL1-05
	Q 4301(B,112,168)	CHIP TRANSISTOR	RSR015P03
	Q 4302(B,122,172)	TRANSISTOR	RT1N241M
	Q 4381(B,7,182)	TRANSISTOR(SC-70)	2SA1602A
	Q 4382(B,20,82)	TRANSISTOR(SC-70)	2SA1602A
	Q 4383(B,19,92)	TRANSISTOR	RT1N241M
	Q 4384(B,14,60)	TRANSISTOR(SC-70)	2SA1602A
	Q 4385(B,13,68)	TRANSISTOR	RT1N241M

Mark	No.	Description	Part No.
D	4301(B,6,48)	DIODE	1SS352
D	4381(B,10,193)	DIODE	UDZS5R1(B)
L	4351(B,201,236)	INDUCTOR	CTF1385
L	4352(B,208,224)	INDUCTOR	CTF1385
L	4356(B,131,221)	INDUCTOR	CTF1385
L	4357(B,132,217)	INDUCTOR	CTF1385
L	4358(B,132,211)	INDUCTOR	CTF1385
L	4359(B,129,211)	INDUCTOR	CTF1385
L	4360(B,127,211)	INDUCTOR	CTF1385
L	4361(B,35,236)	INDUCTOR	CTF1385
L	4362(B,44,237)	INDUCTOR	CTF1385
L	4363(B,34,236)	INDUCTOR	CTF1385
L	4364(B,137,221)	INDUCTOR	CTF1385
L	4365(B,139,217)	INDUCTOR	CTF1385
L	4366(B,126,225)	INDUCTOR	CTF1385
L	4381(B,29,191)	CHIP SOLID INDUCTOR	ATL7002
J	4	4PJUMPER WIRE	D20PDD0420E
J	4308(A,260,196)	CONNECTOR ASS'Y	PF11PG-R05
J	4309(A,232,196)	CONNECTOR ASS'Y	PF08PG-R05
KN	4301(A,151,218)	WRAPPING TERMINAL	VNF1084
CN	4301(A,191,232)	13P PLUG	XKP3066
CN	4302(A,184,232)	CONNECTOR	CKS1730
CN	4303(A,150,232)	CONNECTOR	CKS1730
CN	4304(A,119,232)	CONNECTOR	CKS1730
CN	4305(A,76,232)	CONNECTOR	CKS1721
CN	4306(A,58,232)	CONNECTOR	CKS1728
CN	4307(A,16,230)	CONNECTOR	CKS3813
CN	4308(A,79,207)	30P SOCKET	XKP3092
CN	4309(A,41,207)	30P SOCKET	XKP3092
CN	4310(A,192,183)	11P PLUG	XKP3065
CN	4311(A,157,183)	PLUG	CKS1724
CN	4312(A,119,183)	CONNECTOR	CKS1730
CN	4313(A,67,183)	PLUG	CKS1724
CN	4314(A,56,184)	17P PLUG	XKP3068
CN	4315(A,15,185)	CONNECTOR(07P)	TUC-P07P-B1
CN	4316(A,36,152)	17P PLUG	XKP3068
CN	4317(A,35,128)	19P PLUG	XKP3069
CN	4318(A,18,106)	CONNECTOR(06P)	TUC-P06P-B1
CN	4319(A,34,73)	17P PLUG	XKP3068
CN	4320(A,37,43)	23P PLUG	XKP3071
CN	4321(A,225,228)	CONNECTOR	CKS3380
	4301(A,205,198)	4P CABLE HOLDER	51048-0400
	4306(A,322,199)	PCB BINDER	VEF1040
	4305(A,224,197)	PCB BINDER	VEF1040
	4304(A,5,5)	PCB BINDER	VEF1040
	4302(A,28,197)	4P CABLE HOLDER	51048-0400
Y	19 (A,18,203)	2P HOUSING WIRE ASSY	ADX7578
Y	17	AWG14 BOARD IN	ADX7493
Y	18 (A,9,199)	2P HOUSING WIRE ASSY	ADX7575
	4303(A,110,174)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	4301(B,116,168)		RS1/16S103J
R	4302(B,121,168)		RS1/16S101J
R	4303(B,291,189)		RS1/16S473J
R	4304(B,291,183)		RS1/16S473J
R	4371(B,117,219)		RS1/16S0R0J
R	4372(B,117,221)		RS1/16S0R0J
R	4381(B,8,176)		RS1/16S180J
R	4382(B,8,178)		RS1/16S180J
R	4383(B,8,187)		RS1/16S103J
R	4384(B,10,189)		RS1/16S103J
R	4385(B,24,84)		RS1/16S472J
R	4386(B,19,87)		RS1/16S472J
R	4387(B,14,64)		RS1/16S472J
R	4388(B,18,65)		RS1/16S472J

CAPACITORS

Mark	No.	Description	Part No.
C	4301(A,295,191)		CEAT2R2M50
C	4302(A,295,185)		CEAT2R2M50
C	4303(A,134,198)	ELECTR. CAPACITOR	CEAL470M25
C	4304(A,151,201)	ELECTR. CAPACITOR	CEAL470M25
C	4308(B,110,210)		CKSRYB103K50
C	4311(B,205,213)		CKSRYB474K10
C	4312(B,202,219)		CKSQYB225K10
C	4330(B,153,223)		CKSRYB103K50
C	4331(B,151,223)		CKSRYB471K50
C	4361(B,21,227)		CKSRYB102K50
C	4362(B,12,208)		CKSRYB102K50
C	4365(B,20,208)		CKSRYB102K50
C	4366(B,38,213)		CKSRYB102K50
C	4367(B,26,189)		CKSRYB104K16
C	4368(B,16,158)		CKSRYB104K16
C	4369(B,18,161)		CKSRYB104K16
C	4382(B,10,191)		CKSRYB104K16

O POWER AMP IN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
Q	5601(B,61,180)	CHIP TRANSISTOR	2SD2704K
Q	5602(B,41,219)	TRANSISTOR	IMT4
Q	5603(B,45,207)	CHIP TRANSISTOR	2SA1514K
Q	5604(A,28,206)	TRANSISTOR	2SA1145
Q	5605(A,30,225)	TRANSISTOR	2SC2705
Q	5641(B,15,213)	CHIP TR	2SA1255
D	5601(B,38,205)	CHIP ZENER DIODE	UDZS3R6(B)
D	5602(B,38,207)	DIODE	1SS355
D	5603(B,26,222)	DIODE	1SS355
D	5604(B,28,212)	DIODE	1SS355
D	5605(B,28,218)	DIODE	UDZS4R7(B)
D	5606(B,26,212)	DIODE	UDZS4R7(B)
D	5641(B,11,229)	DIODE	1SS355
D	5642(B,13,229)	DIODE	1SS355
D	5643(B,9,229)	DIODE	1SS355
D	5644(B,45,238)	DIODE	1SS355
CN	5601(A,71,233)	13P PLUG	XKP3066
CN	5602(A,56,199)	13P PLUG	XKP3066
CN	5603(A,74,131)	19P CONNECTOR	52044-1945
CN	5605(A,47,233)	SOCKET 7-P	KP250NA7
CN	5606(A,32,199)	SOCKET 7-P	KP250NA7
	5604(A,7,215)	5P CABLE HOLDER	51048-0500

RESISTORS

Mark	No.	Description	Part No.
R	5601(B,58,178)		RS1/16S102J
R	5602(B,48,212)		RS1/16S221J
R	5603(B,48,216)		RS1/16S333J
R	5604(B,58,182)		RS1/16S103J
R	5605(B,41,213)		RS1/16S152J

Mark	No.	Description	Part No.
R	5606(B,38,217)		RS1/16S821J
R	5607(B,44,203)		RS1/16S2001F
R	5608(B,43,212)		RS1/16S682J
R	5609(A,36,214)	CARBON FILM RESISTOR	RD1/2VM473J
R	5610(B,32,202)		RS1/16S151J
R	5611(B,29,203)		RN1/16SE1201D
R	5612(B,31,230)		RS1/16S221J
⚠ R	5623(A,69,206)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5624(A,56,217)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5627(A,20,225)	RESISTOR (0.18, 5W)	ACN7121
R	5629(B,43,224)		RN1/10SE3302D
R	5630(B,45,220)		RN1/16SE1001D
R	5631(B,47,220)		RN1/16SE1500D
R	5632(B,29,229)		RS1/16S151J
R	5641(B,7,229)		RS1/16S473J
R	5642(B,13,195)		RS1/16S223J
R	5643(B,15,230)		RS1/16S471J
R	5644(B,15,195)		RS1/16S471J
R	5645(B,11,235)		RS1/16S472J
R	5646(B,13,235)		RS1/16S472J
R	5647(B,15,208)		RS1/16S122J
R	5648(B,48,238)		RS1/16S154J
R	5649(B,50,235)		RS1/16S103J
R	5650(B,52,235)		RS1/16S103J

CAPACITORS

Mark	No.	Description	Part No.
C	5601(A,51,212)		CEAT4R7M50
C	5602(B,46,216)		CCSRCH221J50
C	5604(B,39,213)		CKSRYB102K50
C	5607(A,41,203)		CEAT101M10
C	5608(B,35,228)	CAPACITOR(CERAMIC)	ACG7057
C	5609(A,31,210)	ELECT. CAPACITOR	CEAT100M2A
C	5615(B,47,225)		CCSRCH220J50
C	5616(B,45,225)		CCSRCH220J50
C	5617(A,50,221)		CEAT331M10
C	5623(A,67,209)		CEAT100M63
C	5624(A,63,225)		CEAT100M63
C	5632(B,28,233)		CKSRYB224K16
C	5641(A,13,199)		CEANP2R2M50

P POWER PROTECT ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	5701(B,17,153)	OP-AMP IC	BA4560RF
Q	5701(B,10,107)	TRANSISTOR	RT1N241M
Q	5702(B,20,107)	DIGITAL TR(SC-70)	RT1P241M
Q	5703(B,21,118)	TRANSISTOR	RT1N241M
Q	5704(B,16,166)	TRANSISTOR	2SC4081
Q	5705(B,13,107)	TRANSISTOR	RT1N241M
Q	5706(B,24,107)	DIGITAL TR(SC-70)	RT1P241M
D	5701(B,26,166)	DIODE	1SS355
D	5702(B,7,61)	DIODE	1SS355
CN	5701(A,8,97)	11P PLUG	XKP3065
CN	5702(A,21,131)	11P PLUG	XKP3065
CN	5703(A,46,178)	19P CONNECTOR	52044-1945
CN	5704(A,17,181)	CONNECTOR	S5B-PH
CN	5705(A,19,39)	17P CONNECTOR	52044-1745
CN	5706(A,13,41)	3PIN CONNECTOR	S3B-EH
	5701(A,7,47)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	5701(B,13,118)		RS1/16S562J
R	5702(B,16,118)		RS1/16S562J
R	5703(B,27,88)		RS1/16S473J
R	5705(B,20,81)		RS1/16S0R0J
R	5706(B,18,118)		RS1/16S822J
R	5707(B,20,88)		RS1/16S473J
R	5708(B,25,81)		RS1/16S0R0J
R	5710(B,21,149)		RS1/16S223J
R	5711(B,21,153)		RS1/16S103J
R	5712(B,12,155)		RS1/16S472J
R	5713(B,21,158)		RS1/16S103J
R	5714(B,13,139)		RS1/16S102J
R	5715(B,8,166)		RS1/16S473J
R	5716(B,13,166)		RS1/16S472J
R	5717(B,19,166)		RS1/16S103J
R	5718(B,7,57)		RS1/16S104J
R	5720(B,21,166)		RS1/16S103J
R	5721(B,24,166)		RS1/16S683J
R	5746(B,17,88)		RS1/16S0R0J
R	5747(B,18,107)		RS1/16S0R0J
R	5750(B,26,161)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	5701(B,25,88)		CKSRYB104K50
C	5702(B,22,88)		CKSRYB104K50
C	5703(B,24,158)		CKSRYB104K50
C	5704(B,12,151)		CKSRYB104K50
C	5705(B,11,166)		CKSRYB223K50
C	5706(B,14,44)		CKSRYB103K50

Q POWER AMP-L ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	5001(A,169,134)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5002(A,209,134)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5101(A,105,134)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5102(A,137,134)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5201(A,249,134)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5202(A,281,134)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5601(A,313,134)	DARLINGTON POWER IC	SAP17N(OY)
Q	5001(B,193,207)	CHIP TRANSISTOR	2SD2704K
Q	5002(B,181,194)	TRANSISTOR	IMT4
Q	5003(B,194,198)	CHIP TRANSISTOR	2SA1514K
Q	5004(A,192,184)	TRANSISTOR	2SA1145
Q	5005(A,168,192)	TRANSISTOR	2SC2705
Q	5041(B,156,195)	CHIP TR	2SA1255
Q	5101(B,136,207)	CHIP TRANSISTOR	2SD2704K
Q	5102(B,124,194)	TRANSISTOR	IMT4
Q	5103(B,137,198)	CHIP TRANSISTOR	2SA1514K
Q	5104(A,135,184)	TRANSISTOR	2SA1145
Q	5105(A,112,192)	TRANSISTOR	2SC2705
Q	5141(B,100,202)	CHIP TR	2SA1255
Q	5201(B,274,206)	CHIP TRANSISTOR	2SD2704K
Q	5202(B,262,193)	TRANSISTOR	IMT4
Q	5203(B,275,197)	CHIP TRANSISTOR	2SA1514K
Q	5204(A,273,183)	TRANSISTOR	2SA1145
Q	5205(A,250,191)	TRANSISTOR	2SC2705
Q	5241(B,238,197)	CHIP TR	2SA1255

Mark	No.	Description	Part No.
	D 5001(B,197,188)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5002(B,195,188)	DIODE	1SS355
	D 5003(B,187,183)	DIODE	1SS355
	D 5004(B,179,183)	DIODE	1SS355
	D 5005(B,184,183)	DIODE	UDZS4R7(B)
	D 5006(B,182,183)	DIODE	UDZS4R7(B)
	D 5041(B,156,174)	DIODE	1SS355
	D 5042(B,158,174)	DIODE	1SS355
	D 5043(B,158,203)	DIODE	1SS355
	D 5044(B,161,170)	DIODE	1SS355
	D 5101(B,141,188)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5102(B,139,188)	DIODE	1SS355
	D 5103(B,130,183)	DIODE	1SS355
	D 5104(B,123,183)	DIODE	1SS355
	D 5105(B,128,183)	DIODE	UDZS4R7(B)
	D 5106(B,125,183)	DIODE	UDZS4R7(B)
	D 5141(B,93,187)	DIODE	1SS355
	D 5142(B,96,187)	DIODE	1SS355
	D 5143(B,103,205)	DIODE	1SS355
	D 5144(B,104,182)	DIODE	1SS355
	D 5201(B,279,187)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5202(B,276,187)	DIODE	1SS355
	D 5203(B,268,181)	DIODE	1SS355
	D 5204(B,261,181)	DIODE	1SS355
	D 5205(B,266,181)	DIODE	UDZS4R7(B)
	D 5206(B,263,181)	DIODE	UDZS4R7(B)
	D 5241(B,238,173)	DIODE	1SS355
	D 5242(B,240,173)	DIODE	1SS355
	D 5243(B,240,202)	DIODE	1SS355
	D 5244(B,242,173)	DIODE	1SS355
⚠	TH 5001(A,160,229)	POSISTOR	PTFM04BH222Q2N34B0
⚠	TH 5002(A,240,229)	POSISTOR	PTFM04BD222Q2N34B0
	CN 5001(A,320,205)	13P SOCKET	XKP3077
	CN 5002(A,86,219)	11P SOCKET	XKP3076
	CN 5003(A,313,196)	7-P PLUG	KM250NA7L

RESISTORS

Mark	No.	Description	Part No.
	R 5001(B,199,202)		RS1/16S102J
	R 5002(B,187,202)		RS1/16S221J
	R 5003(B,184,203)		RS1/16S333J
	R 5004(B,199,205)		RS1/16S103J
	R 5005(B,177,192)		RS1/16S152J
	R 5006(B,170,200)		RS1/16S821J
	R 5007(B,197,197)		RS1/16S2001F
	R 5008(B,186,194)		RS1/16S682J
	R 5009(A,189,193)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5010(B,197,183)		RS1/16S151J
	R 5011(B,195,184)		RN1/16SE1201D
	R 5012(B,169,197)		RS1/16S221J
⚠	R 5013(B,183,150)		RS1/16S330J
	R 5021(B,176,153)		RS1/16S101J
	R 5022(B,190,153)		RS1/16S101J
⚠	R 5023(A,198,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5024(A,168,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5025(B,163,156)	CHIP RESISTOR	ACN7132
⚠	R 5026(B,200,156)	CHIP RESISTOR	ACN7132
⚠	R 5027(A,192,166)	RESISTOR (0.18, 5W)	ACN7121
	R 5029(B,174,203)		RN1/10SE3302D
	R 5030(B,180,203)		RN1/16SE1001D
	R 5031(B,180,205)		RN1/16SE1500D
	R 5032(B,167,196)		RS1/16S151J
	R 5041(B,154,169)		RS1/16S473J
	R 5042(B,156,169)		RS1/16S223J
	R 5043(B,152,169)		RS1/16S471J
	R 5044(B,158,169)		RS1/16S471J
	R 5045(B,158,179)		RS1/16S472J
	R 5046(B,161,179)		RS1/16S472J
	R 5047(B,157,187)		RS1/16S122J
	R 5048(B,158,183)		RS1/16S154J
	R 5049(B,161,183)		RS1/16S103J
	R 5050(B,160,187)		RS1/16S103J
	R 5101(B,143,202)		RS1/16S102J
	R 5102(B,130,202)		RS1/16S221J
	R 5103(B,127,203)		RS1/16S333J
	R 5104(B,143,205)		RS1/16S103J
	R 5105(B,120,192)		RS1/16S152J
	R 5106(B,114,200)		RS1/16S821J
	R 5107(B,141,197)		RS1/16S2001F
	R 5108(B,130,194)		RS1/16S682J
	R 5109(A,133,193)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5110(B,141,183)		RS1/16S151J
	R 5111(B,139,184)		RN1/16SE1201D
	R 5112(B,113,197)		RS1/16S221J
⚠	R 5113(B,115,150)		RS1/16S330J
	R 5121(B,108,153)		RS1/16S101J
	R 5122(B,129,150)		RS1/16S101J
⚠	R 5123(A,142,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5124(A,111,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5125(B,99,156)	CHIP RESISTOR	ACN7132
⚠	R 5126(B,136,156)	CHIP RESISTOR	ACN7132
⚠	R 5127(A,136,166)	RESISTOR (0.18, 5W)	ACN7121
	R 5129(B,117,203)		RN1/10SE3302D
	R 5130(B,123,203)		RN1/16SE1001D
	R 5131(B,123,205)		RN1/16SE1500D
	R 5132(B,110,196)		RS1/16S151J
	R 5141(B,97,182)		RS1/16S473J
	R 5142(B,99,182)		RS1/16S223J
	R 5143(B,95,182)		RS1/16S471J
	R 5144(B,102,182)		RS1/16S471J
	R 5145(B,100,187)		RS1/16S472J
	R 5146(B,102,187)		RS1/16S472J
	R 5147(B,99,195)		RS1/16S122J
	R 5148(B,100,191)		RS1/16S154J
	R 5149(B,102,191)		RS1/16S103J
	R 5150(B,102,195)		RS1/16S103J
	R 5201(B,281,201)		RS1/16S102J
	R 5202(B,268,201)		RS1/16S221J
	R 5203(B,265,202)		RS1/16S333J
	R 5204(B,281,204)		RS1/16S103J
	R 5205(B,258,191)		RS1/16S152J
	R 5206(B,252,199)		RS1/16S821J
	R 5207(B,279,196)		RS1/16S2001F
	R 5208(B,268,193)		RS1/16S682J
	R 5209(A,271,192)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5210(B,278,183)		RS1/16S151J
	R 5211(B,276,183)		RN1/16SE1201D
	R 5212(B,251,196)		RS1/16S221J
⚠	R 5213(B,259,149)		RS1/16S330J
	R 5221(B,251,153)		RS1/16S101J

Mark	No.	Description	Part No.
R	5222(B,269,153)		RS1/16S101J
⚠ R	5223(A,280,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5224(A,250,175)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5225(B,238,156)	CHIP RESISTOR	ACN7132
⚠ R	5226(B,279,156)	CHIP RESISTOR	ACN7132
⚠ R	5227(A,274,165)	RESISTOR (0.18, 5W)	ACN7121
R	5229(B,255,202)		RN1/10SE3302D
R	5230(B,261,202)		RN1/16SE1001D
R	5231(B,261,204)		RN1/16SE1500D
R	5232(B,248,195)		RS1/16S151J
R	5241(B,237,169)		RS1/16S473J
R	5242(B,239,169)		RS1/16S223J
R	5243(B,235,169)		RS1/16S471J
R	5244(B,241,169)		RS1/16S471J
R	5245(B,240,180)		RS1/16S472J
R	5246(B,242,180)		RS1/16S472J
R	5247(B,240,189)		RS1/16S122J
R	5248(B,237,180)		RS1/16S154J
R	5249(B,242,184)		RS1/16S103J
R	5250(B,240,184)		RS1/16S103J
⚠ R	5292(B,300,156)	CHIP RESISTOR	ACN7132
⚠ R	5613(B,314,153)		RS1/16S330J
R	5621(B,308,151)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	5001(A,190,203)		CEAT4R7M50
C	5002(B,184,200)		CCSRCH221J50
C	5004(B,174,197)		CKSRYB102K50
C	5007(A,202,193)		CEAT101M10
C	5008(B,171,197)	CAPACITOR(CERAMIC)	ACG7057
C	5009(A,186,188)	ELECT. CAPACITOR	CEAT100M2A
C	5011(B,169,142)	CAPACITOR(CERAMIC)	ACG7056
C	5012(B,197,142)	CAPACITOR(CERAMIC)	ACG7056
C	5015(B,175,205)		CCSRCH220J50
C	5016(B,175,207)		CCSRCH220J50
C	5017(A,179,207)		CEAT331M10
C	5023(A,197,180)		CEAT100M63
C	5024(A,173,186)		CEAT100M63
C	5032(B,166,199)		CKSRYB224K16
C	5041(A,155,190)		CEANP2R2M50
C	5051(A,219,183)	ELECT. CAPACITOR	CEAT100M2A
C	5052(A,223,177)	ELECT. CAPACITOR	CEAT100M2A
C	5101(A,133,203)		CEAT4R7M50
C	5102(B,127,200)		CCSRCH221J50
C	5104(B,117,197)		CKSRYB102K50
C	5107(A,145,193)		CEAT101M10
C	5108(B,115,197)	CAPACITOR(CERAMIC)	ACG7057
C	5109(A,129,188)	ELECT. CAPACITOR	CEAT100M2A
C	5111(B,101,142)	CAPACITOR(CERAMIC)	ACG7056
C	5112(B,130,142)	CAPACITOR(CERAMIC)	ACG7056
C	5115(B,119,205)		CCSRCH220J50
C	5116(B,119,207)		CCSRCH220J50
C	5117(A,123,207)		CEAT331M10
C	5123(A,141,180)		CEAT100M63
C	5124(A,116,186)		CEAT100M63
C	5132(B,110,199)		CKSRYB224K16
C	5141(A,96,198)		CEANP2R2M50
C	5201(A,271,202)		CEAT4R7M50
C	5202(B,265,199)		CCSRCH221J50
C	5204(B,255,196)		CKSRYB102K50

Mark	No.	Description	Part No.
C	5207(A,283,192)		CEAT101M10
C	5208(B,253,196)	CAPACITOR(CERAMIC)	ACG7057
C	5209(A,267,187)	ELECT. CAPACITOR	CEAT100M2A
C	5211(B,244,142)	CAPACITOR(CERAMIC)	ACG7056
C	5212(B,275,142)	CAPACITOR(CERAMIC)	ACG7056
C	5215(B,257,204)		CCSRCH220J50
C	5216(B,257,206)		CCSRCH220J50
C	5217(A,261,206)		CEAT331M10
C	5223(A,287,181)		CEAT100M63
C	5224(A,255,185)		CEAT100M63
C	5232(B,248,198)		CKSRYB224K16
C	5241(A,237,192)		CEANP2R2M50
C	5611(B,307,142)	CAPACITOR(CERAMIC)	ACG7056

R POWER AMP-R ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	5301(A,197,112)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5302(A,157,112)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5401(A,125,112)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5402(A,93,112)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5501(A,269,112)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5502(A,237,112)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5602(A,301,112)	DARLINGTON POWER IC	SAP17P(OY)
Q	5301(B,196,38)	CHIP TRANSISTOR	2SD2704K
Q	5302(B,187,52)	TRANSISTOR	IMT4
Q	5303(B,173,49)	CHIP TRANSISTOR	2SA1514K
Q	5304(A,176,63)	TRANSISTOR	2SA1145
Q	5305(A,199,49)	TRANSISTOR	2SC2705
Q	5341(B,152,48)	CHIP TR	2SA1255
Q	5401(B,132,38)	CHIP TRANSISTOR	2SD2704K
Q	5402(B,126,52)	TRANSISTOR	IMT4
Q	5403(B,113,48)	CHIP TRANSISTOR	2SA1514K
Q	5404(A,119,64)	TRANSISTOR	2SA1145
Q	5405(A,139,49)	TRANSISTOR	2SC2705
Q	5441(B,94,46)	CHIP TR	2SA1255
Q	5501(B,285,38)	CHIP TRANSISTOR	2SD2704K
Q	5502(B,276,52)	TRANSISTOR	IMT4
Q	5503(B,262,49)	CHIP TRANSISTOR	2SA1514K
Q	5504(A,260,63)	TRANSISTOR	2SA1145
Q	5505(A,288,49)	TRANSISTOR	2SC2705
Q	5541(B,239,49)	CHIP TR	2SA1255
Q	5571(B,225,38)	TRANSISTOR	2SC4081
Q	5572(B,222,38)	TRANSISTOR	2SC4081
D	5301(B,171,57)	CHIP ZENER DIODE	UDZS3R6(B)
D	5302(B,173,59)	DIODE	1SS355
D	5303(B,181,64)	DIODE	1SS355
D	5304(B,187,64)	DIODE	1SS355
D	5305(B,183,64)	DIODE	UDZS4R7(B)
D	5306(B,185,64)	DIODE	UDZS4R7(B)
D	5341(B,153,67)	DIODE	1SS355
D	5342(B,151,67)	DIODE	1SS355
D	5343(B,151,44)	DIODE	1SS355
D	5344(B,155,70)	DIODE	1SS355
D	5401(B,114,59)	CHIP ZENER DIODE	UDZS3R6(B)
D	5402(B,116,60)	DIODE	1SS355
D	5403(B,124,64)	DIODE	1SS355
D	5404(B,130,64)	DIODE	1SS355
D	5405(B,126,64)	DIODE	UDZS4R7(B)

Mark	No.	Description	Part No.
D	5406(B,128,64)	DIODE	UDZS4R7(B)
D	5441(B,93,58)	DIODE	1SS355
D	5442(B,90,58)	DIODE	1SS355
D	5443(B,94,40)	DIODE	1SS355
D	5444(B,111,79)	DIODE	1SS355
D	5501(B,255,57)	CHIP ZENER DIODE	UDZS3R6(B)
D	5502(B,257,59)	DIODE	1SS355
D	5503(B,265,64)	DIODE	1SS355
D	5504(B,271,64)	DIODE	1SS355
D	5505(B,267,64)	DIODE	UDZS4R7(B)
D	5506(B,269,64)	DIODE	UDZS4R7(B)
D	5541(B,240,71)	DIODE	1SS355
D	5542(B,238,71)	DIODE	1SS355
D	5543(B,242,46)	DIODE	1SS355
D	5544(B,242,73)	DIODE	1SS355
⚠ TH	5301(A,166,17)	POSISTOR	PTFM04BH222Q2N34B0
CN	5301(A,320,26)	13P SOCKET	XKP3077
CN	5302(A,86,40)	11P SOCKET	XKP3076
CN	5303(A,313,66)	7-P PLUG	KM250NA7L

RESISTORS

Mark	No.	Description	Part No.
R	5301(B,203,43)		RS1/16S102J
R	5302(B,191,42)		RS1/16S221J
R	5303(B,187,41)		RS1/16S333J
R	5304(B,203,40)		RS1/16S103J
R	5305(B,194,55)		RS1/16S152J
R	5306(B,194,52)		RS1/16S821J
R	5307(B,169,48)		RS1/16S2001F
R	5308(B,180,52)		RS1/16S682J
R	5309(A,177,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5310(B,171,64)		RS1/16S151J
R	5311(B,173,63)		RN1/16SE1201D
R	5312(B,202,52)		RS1/16S221J
⚠ R	5313(B,183,97)		RS1/16S330J
R	5321(B,190,93)		RS1/16S101J
R	5322(B,176,93)		RS1/16S101J
⚠ R	5323(A,163,72)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5324(A,198,83)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5325(B,203,90)	CHIP RESISTOR	ACN7132
⚠ R	5326(B,166,91)	CHIP RESISTOR	ACN7132
⚠ R	5327(A,174,80)	RESISTOR (0.18, 5W)	ACN7121
R	5329(B,179,45)		RN1/10SE3302D
R	5330(B,183,46)		RN1/16SE1001D
R	5331(B,183,43)		RN1/16SE1500D
R	5332(B,203,49)		RS1/16S151J
R	5341(B,153,77)		RS1/16S473J
R	5342(B,151,77)		RS1/16S223J
R	5343(B,153,73)		RS1/16S471J
R	5344(B,151,73)		RS1/16S471J
R	5345(B,152,60)		RS1/16S472J
R	5346(B,150,60)		RS1/16S472J
R	5347(B,147,58)		RS1/16S122J
R	5348(B,151,55)		RS1/16S154J
R	5349(B,151,57)		RS1/16S103J
R	5350(B,156,46)		RS1/16S103J
R	5401(B,138,43)		RS1/16S102J
R	5402(B,126,42)		RS1/16S221J
R	5403(B,123,41)		RS1/16S333J
R	5404(B,138,40)		RS1/16S103J

Mark	No.	Description	Part No.
R	5405(B,134,55)		RS1/16S152J
R	5406(B,134,52)		RS1/16S821J
R	5407(B,109,48)		RS1/16S2001F
R	5408(B,120,52)		RS1/16S682J
R	5409(A,117,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5410(B,114,65)		RS1/16S151J
R	5411(B,116,64)		RN1/16SE1201D
R	5412(B,141,52)		RS1/16S221J
⚠ R	5413(B,115,97)		RS1/16S330J
R	5421(B,128,93)		RS1/16S101J
R	5422(B,108,93)		RS1/16S101J
⚠ R	5423(A,111,75)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5424(A,142,83)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5425(B,135,91)	CHIP RESISTOR	ACN7132
⚠ R	5426(B,96,91)	CHIP RESISTOR	ACN7132
⚠ R	5427(A,118,80)	RESISTOR (0.18, 5W)	ACN7121
R	5429(B,114,44)		RN1/10SE3302D
R	5430(B,118,45)		RN1/16SE1001D
R	5431(B,118,43)		RN1/16SE1500D
R	5432(B,143,49)		RS1/16S151J
R	5441(B,99,85)		RS1/16S473J
R	5442(B,97,85)		RS1/16S223J
R	5443(B,101,85)		RS1/16S471J
R	5444(B,95,85)		RS1/16S471J
R	5445(B,91,52)		RS1/16S472J
R	5446(B,91,50)		RS1/16S472J
R	5447(B,90,46)		RS1/16S122J
R	5448(B,94,51)		RS1/16S154J
R	5449(B,96,51)		RS1/16S103J
R	5450(B,98,46)		RS1/16S103J
R	5501(B,292,43)		RS1/16S102J
R	5502(B,280,42)		RS1/16S221J
R	5503(B,276,41)		RS1/16S333J
R	5504(B,292,40)		RS1/16S103J
R	5505(B,283,55)		RS1/16S152J
R	5506(B,283,52)		RS1/16S821J
R	5507(B,258,48)		RS1/16S2001F
R	5508(B,269,52)		RS1/16S682J
R	5509(A,266,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5510(B,255,63)		RS1/16S151J
R	5511(B,257,63)		RN1/16SE1201D
R	5512(B,290,52)		RS1/16S221J
⚠ R	5513(B,259,97)		RS1/16S330J
R	5521(B,270,94)		RS1/16S101J
R	5522(B,251,93)		RS1/16S101J
⚠ R	5523(A,247,69)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5524(A,283,82)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5525(B,277,91)	CHIP RESISTOR	ACN7132
⚠ R	5526(B,238,91)	CHIP RESISTOR	ACN7132
⚠ R	5527(A,258,80)	RESISTOR (0.18, 5W)	ACN7121
R	5529(B,268,45)		RN1/10SE3302D
R	5530(B,272,46)		RN1/16SE1001D
R	5531(B,272,43)		RN1/16SE1500D
R	5532(B,292,49)		RS1/16S151J
R	5541(B,241,77)		RS1/16S473J
R	5542(B,235,77)		RS1/16S223J
R	5543(B,239,77)		RS1/16S471J
R	5544(B,237,77)		RS1/16S471J
R	5545(B,240,64)		RS1/16S472J
R	5546(B,238,64)		RS1/16S472J

Mark	No.	Description	Part No.
R	5547(B,238,57)		RS1/16S122J
R	5548(B,235,68)		RS1/16S154J
R	5549(B,235,64)		RS1/16S103J
R	5550(B,245,45)		RS1/16S103J
R	5571(B,228,38)		RS1/16S472J
⚠ R	5592(B,301,91)	CHIP RESISTOR	ACN7132
R	5622(B,308,96)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	5301(A,194,43)		CEAT4R7M50
C	5302(B,187,43)		CCSRCH221J50
C	5304(B,198,55)		CKSRYB102K50
C	5307(A,164,52)		CEAT101M10
C	5308(B,198,52)	CAPACITOR(CERAMIC)	ACG7057
C	5309(A,181,58)	ELECT. CAPACITOR	CEAT100M2A
C	5311(B,197,104)	CAPACITOR(CERAMIC)	ACG7056
C	5312(B,170,104)	CAPACITOR(CERAMIC)	ACG7056
C	5315(B,179,43)		CCSRCH220J50
C	5316(B,174,43)		CCSRCH220J50
C	5317(A,179,39)		CEAT331M10
C	5323(A,160,63)		CEAT100M63
C	5324(A,191,61)		CEAT100M63
C	5332(B,204,52)		CKSRYB224K16
C	5341(A,147,62)		CEANP2R2M50
C	5351(A,228,68)	ELECT. CAPACITOR	CEAT100M2A
C	5352(A,224,62)	ELECT. CAPACITOR	CEAT100M2A
C	5401(A,129,43)		CEAT4R7M50
C	5402(B,123,43)		CCSRCH221J50
C	5404(B,138,55)		CKSRYB102K50
C	5407(A,105,52)		CEAT101M10
C	5408(B,138,52)	CAPACITOR(CERAMIC)	ACG7057
C	5409(A,125,59)	ELECT. CAPACITOR	CEAT100M2A
C	5411(B,130,104)	CAPACITOR(CERAMIC)	ACG7056
C	5412(B,101,104)	CAPACITOR(CERAMIC)	ACG7056
C	5415(B,114,42)		CCSRCH220J50
C	5416(B,109,43)		CCSRCH220J50
C	5417(A,114,39)		CEAT331M10
C	5423(A,107,61)		CEAT100M63
C	5424(A,135,61)		CEAT100M63
C	5432(B,143,52)		CKSRYB224K16
C	5441(A,87,45)		CEANP2R2M50
C	5501(A,283,43)		CEAT4R7M50
C	5502(B,276,43)		CCSRCH221J50
C	5504(B,287,55)		CKSRYB102K50
C	5507(A,253,52)		CEAT101M10
C	5508(B,287,52)	CAPACITOR(CERAMIC)	ACG7057
C	5509(A,265,58)	ELECT. CAPACITOR	CEAT100M2A
C	5511(B,272,104)	CAPACITOR(CERAMIC)	ACG7056
C	5512(B,245,104)	CAPACITOR(CERAMIC)	ACG7056
C	5515(B,268,43)		CCSRCH220J50
C	5516(B,263,43)		CCSRCH220J50
C	5517(A,268,39)		CEAT331M10
C	5523(A,244,59)		CEAT100M63
C	5524(A,280,61)		CEAT100M63
C	5532(B,293,52)		CKSRYB224K16
C	5541(A,238,54)		CEANP2R2M50
C	5571(A,231,35)		CEAT331M10
C	5612(B,307,104)	CAPACITOR(CERAMIC)	ACG7056

S LOCAL SUPPLY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	6101(A,149,69)	IC	NJM78M06FA
⚠ IC	6102(A,149,19)	REGULATOR IC	NJM78M56FA
⚠ IC	6103(A,11,64)	REGULATOR IC	NJM78M12FA
⚠ IC	6104(A,11,39)	REGULATOR IC	NJM78M12FA
⚠ IC	6105(A,149,44)	IC	NJM79M05FA
⚠ IC	6106(A,11,14)	REGULATOR IC	NJM79M12FA
⚠ IC	6108(A,51,61)	PROTECTOR(1.6A)	AEK7012
⚠ IC	6110(A,47,95)	IC PROTECTOR	ICP-N10
Q	6101(B,40,96)	TRANSISTOR	UMD2N
Q	6102(B,56,82)	TRANSISTOR	RT1N241M
⚠ Q	6103(A,11,89)	TRANSISTOR	2SD1763A
⚠ D	6101(A,111,50)	DIODE	D3SBA20(B)
⚠ D	6102(B,65,61)	DIODE	1SR154-400
⚠ D	6103(B,56,61)	DIODE	1SR154-400
⚠ D	6104(B,61,61)	DIODE	1SR154-400
D	6105(B,86,72)	DIODE	UDZS6R2(B)
D	6106(B,88,77)	DIODE	UDZS6R2(B)
D	6107(B,85,77)	DIODE	UDZS6R2(B)
D	6108(B,94,80)	DIODE	UDZS6R2(B)
D	6109(B,88,90)	DIODE	UDZS6R2(B)
D	6110(B,40,81)	DIODE	UDZS27(B)
D	6111(B,140,68)	CHIP DIODE	RB501V-40
D	6115(B,26,71)	CHIP DIODE	RB501V-40
⚠ D	6119(B,47,73)	DIODE	1SR154-400
⚠ D	6120(B,52,73)	DIODE	1SR154-400
D	6121(B,141,10)	CHIP DIODE	RB501V-40
⚠ D	6122(B,59,39)	DIODE	1SR154-400
⚠ D	6123(B,63,39)	DIODE	1SR154-400
D	6124(B,142,39)	CHIP DIODE	RB501V-40
D	6125(B,149,50)	DIODE	1SS352
D	6126(B,18,43)	CHIP DIODE	RB501V-40
⚠ D	6127(B,63,26)	DIODE	1SR154-400
⚠ D	6128(B,59,26)	DIODE	1SR154-400
D	6129(B,18,16)	CHIP DIODE	RB501V-40
J	2	JUMPER WIRE	D20PDY0415E
J	6104(A,70,95)	CONNECTOR ASS'Y	PF05PG-Q12
CN	6101(A,112,73)	PLUG(12P)	KM200NA12
CN	6103(A,91,93)	6P JUMPER CONNECTOR	52147-0610
CN	6105(A,60,8)	PLUG(8P)	KM200NA8
CN	6106(A,87,8)	PLUG(11P)	KM200NA11
	6102(A,121,89)	4P CABLE HOLDER	51048-0400
	6101(A,100,65)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	6101(B,75,71)		RS1/16S473J
⚠ R	6103(A,76,77)	CARBON FILM RESISTOR	RD1/4MUF391J
R	6105(B,40,87)		RS1/16S472J
R	6106(B,68,83)		RS1/16S222J
R	6108(B,37,87)		RS1/16S101J
R	6111(B,68,39)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	6101(A,120,76)	FILM CAPACITOR	CQMBA104J50
C	6103(B,95,89)		CKSRYB103K50
C	6105(B,146,72)		CKSRYB103K50
C	6106(A,68,30)	FILM CAPACITOR	CQMBA102J50
C	6107(A,110,61)	FILM CAPACITOR	CQMBA102J50

Mark	No.	Description	Part No.
C	6110(B,145,22)		CKSRYB103K50
C	6111(B,142,46)		CKSRYB103K50
C	6112(B,14,63)		CKSRYB103K50
C	6115(B,15,37)		CKSRYB103K50
C	6116(B,14,11)		CKSRYB103K50
C	6117(A,63,52)	ELECT. CAPACITOR	CEANP101M35
C	6118(A,44,68)	ELECT. CAPACITOR	CEANP102M16
C	6120(A,62,81)	ELECT. CAPACITOR	CEANP470M25
C	6122(A,60,71)	ELECT. CAPACITOR	CEAT101M35
C	6123(A,71,70)		CEAT221M35
C	6124(A,91,72)		CEAT470M50
C	6125(A,84,89)		CEAT101M16
C	6126(A,46,83)	ELECT. CAPACITOR	CEAT102M35
C	6127(A,112,37)	ELECT. CAPACITOR	CEAT682M16
C	6128(A,39,84)		CEAT100M50
C	6129(A,144,58)		CEAT221M16
C	6130(A,141,19)		CEAT101M16
C	6131(A,94,37)	ELECT. CAPACITOR	CEAT222M16
C	6132(A,48,51)	ELECT. CAPACITOR	CEAT222M25
C	6133(A,144,31)		CEAT101M16
C	6134(A,16,68)		CEAT100M50
C	6135(A,18,52)		CEAT221M25
C	6136(A,48,34)	ELECT. CAPACITOR	CEAT222M25
C	6137(A,18,27)		CEAT221M25
C	6138(B,16,89)		CKSRYB102K50
C	6139(A,56,90)		CEAT100M50

T DC/DC ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	4271(A,112,80)	REGULATOR IC	PQ1CG3032FZ
⚠ D	4271(A,68,85)	DIODE	D3SBA20(B)
⚠ D	4272(B,124,76)	DIODE	RB051L-40
⚠ D	4273(B,115,53)	DIODE	PTZ6R8(B)
L	4271(A,131,65)	INDUCTOR	ATH7044
CN	4271(A,60,53)	4PJUMPER CONNECTOR	52151-0410
CN	4272(A,102,57)	CONNECTOR	B2PS-VH
	4273(A,62,68)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	4272(B,128,85)		RN1/16SE1001D
R	4273(B,128,81)		RN1/16SE3001D
R	4274(B,130,74)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	4272(A,92,65)	ELECT. CAPACITOR	CEAT103M16
C	4273(A,120,55)	ELECT. CAPACITOR	CEHAZL102M6R3
C	4274(A,62,70)	ELECT. CAPACITOR	CEHAZL102M16
C	4278(A,73,61)	FILM CAPACITOR	CQMBA102J50
C	4281(B,119,76)		CKSRYB104K16
C	4282(B,111,54)		CKSYB104K25

U TRANS 2-1 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	4201(A,111,106)	PROTECTOR(7A)	AEK7021
⚠ IC	4202(A,95,152)	PROTECTOR(7A)	AEK7021
Q	4201(B,90,97)	CHIP TRANSISTOR	RN1901
Q	4202(B,81,97)	TRANSISTOR	RT3T22M
Q	4203(B,73,97)	TRANSISTOR	RT3T22M

Mark	No.	Description	Part No.
⚠ D	4201(B,100,140)	BRIDGE DIODE	S1WB(A)60SD
D	4203(B,98,105)	DIODE	UDZS8R2(B)
D	4204(B,71,105)	DIODE	UDZS7R5(B)
D	4205(B,100,105)	DIODE	UDZS9R1(B)
D	4206(B,71,102)	DIODE	UDZS8R2(B)
D	4207(B,100,99)	DIODE	UDZS9R1(B)
D	4208(B,76,104)	DIODE	UDZS8R2(B)
D	4209(B,96,99)	DIODE	UDZS6R8(B)
D	4210(B,76,101)	DIODE	UDZS6R8(B)
D	4211(B,94,102)	DIODE	UDZS13(B)
D	4212(B,81,101)	DIODE	UDZS15(B)
D	4213(B,96,104)	DIODE	UDZS15(B)
D	4214(B,81,104)	DIODE	UDZS15(B)
D	4215(B,77,95)	DIODE	UDZS13(B)
D	4216(B,68,94)	DIODE	UDZS13(B)
J	4201	JUMPER WIRE	D20PDY0610E
	4201(A,73,128)	6P CABLE HOLDER	51048-0600

RESISTORS

Mark	No.	Description	Part No.
⚠ R	4205(A,85,129)	METAL OXIDE RESISTOR	RS1LMF472J
⚠ R	4206(A,71,109)	METAL OXIDE RESISTOR	RS1LMF472J
⚠ R	4207(A,88,126)	METAL OXIDE RESISTOR	RS1/2LMF332J
⚠ R	4208(A,75,106)	METAL OXIDE RESISTOR	RS1/2LMF332J

CAPACITORS

Mark	No.	Description	Part No.
C	4205(A,91,136)	ELECT. CAPACITOR	CEAT471M2A
C	4206(A,81,149)	ELECT. CAPACITOR	CEAT471M2A
C	4207(A,94,119)	ELECT. CAPACITOR	CEAT101M63
C	4208(A,94,108)	ELECT. CAPACITOR	CEAT101M63
C	4209(A,65,132)	ELECT. CAPACITOR	CEAT221M2A
C	4210(A,72,120)	ELECT. CAPACITOR	CEAT221M2A

V VH TR ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	4261(A,37,16)	IC PROTECTOR	ICP-N15
⚠ IC	4262(A,21,16)	IC PROTECTOR	ICP-N15
⚠ Q	4261(A,36,31)	TRANSISTOR	2SD1763A
⚠ Q	4262(A,21,31)	TRANSISTOR	2SB1186A
⚠ Q	4263(B,30,20)	CHIP TRANSISTOR	2SC3906K
⚠ Q	4264(B,15,20)	CHIP TRANSISTOR	2SA1514K
⚠ D	4261(B,42,16)	DIODE	1SR154-400
⚠ D	4262(B,26,19)	DIODE	1SR154-400
CN	4261(A,23,9)	6P JUMPER CONNECTOR	52147-0610

RESISTORS

Mark	No.	Description	Part No.
R	4261(B,29,24)		RS1/16S100J
R	4262(B,14,24)		RS1/16S100J
R	4263(B,30,15)		RS1/16S471J
R	4264(B,14,13)		RS1/16S471J

W DIODE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ D	4251(A,189,128)	DIODE	D5SBA20(B)
⚠ D	4252(A,154,128)	DIODE	D5SBA20(B)

RESISTORS

Mark	No.	Description	Part No.
⚠	R 4251(A,182,147)	CARBON FILM RESISTOR	RD1/4MUF100J

CAPACITORS

Mark	No.	Description	Part No.
	C 4251(A,171,143)	FILM CAPACITOR	CFTLA104J2A
	C 4252(A,176,148)	FILM CAPACITOR	CFTLA104J2A

X SP/PS ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	Q 4001(B,150,72)	TRANSISTOR	RT1N140M
	Q 4002(B,229,97)	TRANSISTOR	RT1N140M
	Q 4003(B,247,90)	TRANSISTOR	RT1N140M
	Q 4004(B,290,84)	TRANSISTOR	RT1N140M
	Q 4005(B,212,99)	TRANSISTOR	RT1N140M
	D 4001(B,168,80)	DIODE	1SS352
	D 4002(B,165,80)	DIODE	1SS352
	D 4003(B,216,88)	DIODE	1SS352
	D 4004(B,213,88)	DIODE	1SS352
	D 4005(B,247,82)	DIODE	1SS352
	D 4006(B,244,82)	DIODE	1SS352
	D 4007(B,291,79)	DIODE	1SS352
	D 4008(B,289,79)	DIODE	1SS352
	D 4009(B,217,99)	DIODE	1SS352
	D 4010(B,215,99)	DIODE	1SS352
	L 4011(A,188,78)	COIL	ATH1053
	L 4021(A,149,68)	COIL	ATH1053
	L 4031(A,199,83)	COIL	ATH1053
	L 4041(A,258,82)	COIL	ATH1053
	L 4051(A,236,90)	COIL	ATH1053
	L 4061(A,299,81)	COIL	ATH1053
	L 4071(A,280,84)	COIL	ATH1053
	J 4009(A,147,76)	CONNECTOR ASS'Y	PF13PG-R12
	RY 4001(A,163,81)	RELAY	ASR7001
	RY 4002(A,211,89)	RELAY	ASR7001
	RY 4003(A,242,83)	RELAY	ASR7001
	RY 4004(A,286,82)	RELAY	ASR7001
	RY 4005(A,219,103)	RELAY	ASR7001
	CN4001(A,185,33)	SP TERMINAL 6-P(V0)	XKE3018
	CN4002(A,248,33)	SP TERMINAL 8-P(V0)	XKE3017
	CN4007(A,313,90)	CONNECTOR(05P)	TUC-P05P-B1
	CN4008(A,313,152)	CONNECTOR(09P)	TUC-P09P-B1
	Y 13	AWG14 BOARD IN	ADX7461

RESISTORS

Mark	No.	Description	Part No.
⚠	R 4011(A,187,68)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 4012(A,175,64)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 4013(A,193,94)	METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 4021(A,158,70)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 4022(A,145,58)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 4023(A,188,97)	METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 4031(A,196,87)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 4032(A,194,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 4041(A,254,82)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 4042(A,267,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 4051(A,240,93)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 4052(A,228,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 4061(A,309,79)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 4062(A,313,73)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 4071(A,280,88)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 4072(A,268,94)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 4101(A,222,115)	CARBON FILM RESISTOR	RD1/4MUF473J
⚠	R 4102(A,252,115)	CARBON FILM RESISTOR	RD1/4MUF473J

CAPACITORS

Mark	No.	Description	Part No.
	C 4001(A,162,88)		CEAT101M50
	C 4011(A,182,60)		CFTLA104J50
	C 4012(A,178,57)		CFTLA104J50
	C 4013(A,169,49)	FILM CAPACITOR	CQMBA103J50
	C 4021(A,145,48)		CFTLA104J50
	C 4022(A,145,39)		CFTLA104J50
	C 4023(A,157,42)	FILM CAPACITOR	CQMBA103J50
	C 4031(A,197,63)		CFTLA104J50
	C 4032(A,192,57)		CFTLA104J50
	C 4033(A,201,67)	FILM CAPACITOR	CQMBA103J50
	C 4041(A,257,63)		CFTLA104J50
	C 4042(A,257,54)		CFTLA104J50
	C 4043(A,247,56)	FILM CAPACITOR	CQMBA103J50
	C 4051(A,224,61)		CFTLA104J50
	C 4052(A,228,55)		CFTLA104J50
	C 4053(A,232,49)	FILM CAPACITOR	CQMBA103J50
	C 4061(A,304,61)		CFTLA104J50
	C 4062(A,304,54)		CFTLA104J50
	C 4063(A,296,57)	FILM CAPACITOR	CQMBA103J50
	C 4071(A,270,65)		CFTLA104J50
	C 4072(A,272,59)		CFTLA104J50
	C 4073(A,276,59)	FILM CAPACITOR	CQMBA103J50
	C 4092(B,178,42)		CKSRYB222K50
	C 4094(B,240,48)		CKSRYB222K50
	C 4096(B,281,47)		CKSRYB222K50
	C 4101(A,212,137)		ACH7258
	C 4102(A,258,137)		ACH7258

Y TRANS 2-2 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	H 3151(A,172,75)	FUSE CLIP	AKR7001
	H 3152(A,151,75)	FUSE CLIP	AKR7001
	H 3153(A,173,63)	FUSE CLIP	AKR7001
	H 3154(A,152,63)	FUSE CLIP	AKR7001
	H 3155(A,173,52)	FUSE CLIP	AKR7001
	H 3156(A,152,52)	FUSE CLIP	AKR7001
	H 3157(A,172,40)	FUSE CLIP	AKR7001
	H 3158(A,151,40)	FUSE CLIP	AKR7001
	H 3159(A,172,28)	FUSE CLIP	AKR7001
	H 3160(A,151,28)	FUSE CLIP	AKR7001
	J 3151(A,138,41)	CONNECTOR ASS'Y	PF12PG-R40

CAPACITORS

Mark	No.	Description	Part No.
	C 3001(A,158,11)	FILM CAPACITOR	CQMBA102J50

Z POWER SW ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	Q 3561(B,10,72)	DIGITAL TR(SC-70)	RT1N431M
	D 3562(A,14,73)	LED(BLUE)	SLR343BC4T(JKLM)
	S 3562(A,13,66)	SWITCH	VSG1024
	3562(A,32,81)	4P CABLE HOLDER	51048-0400

RESISTORS

Mark	No.	Description	Part No.
	R 3561(B,19,77)		RS1/16S151J

CAPACITORS

Mark	No.	Description	Part No.
	C 3563(B,15,80)		CCSRCH101J50

AA PRIMARY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	IC 3061(A,299,108)	REGULATOR IC	NJM78M56FA
	Q 3061(B,281,71)	DIGITAL TR(SC-70)	RT1N431M
⚠	D 3061(B,297,92)	BRIDGE DIODE	S1WB(A)60SD
	D 3062(B,299,78)	DIODE	1SS352
	D 3063(B,308,78)	DIODE	UDZS5R1(B)
	D 3064(B,275,78)	DIODE	1SS352
	D 3065(B,275,71)	DIODE	1SS352
⚠	L 3063(A,244,35)	LINE FILTER	XTF3004
	H 3061(A,223,57)	FUSE CLIP	AKR7001
	H 3062(A,243,57)	FUSE CLIP	AKR7001
	KN 3061(A,313,21)	WRAPPING TERMINAL	VNF1084
⚠	RY 3061(A,271,69)	JOE LOWPOWER RELAY	ASR7013
⚠	T 3061(A,273,95)	STANDBY TRANSFORMER	ATT7040
	CN 3062(A,308,126)	CONNECTOR(9P)	TUC-P09X-B1
	CN 3063(A,246,126)	CONNECTOR(05P)	TUC-P05X-B1
⚠	CN 3064	AC SOCKET 1-P	AKP1034
⚠	CN 3067(A,276,45)	CONNECTOR	B2P3-VH
⚠	3066	AC INLET ASSY	ADX7464

RESISTORS

Mark	No.	Description	Part No.
	R 3062(B,303,78)		RS1/16S332J
	R 3063(A,279,84)	CARBON FILM RESISTOR	RD1/4MUF101J
	R 3064(B,305,78)		RS1/16S103J

CAPACITORS

Mark	No.	Description	Part No.
⚠	C 3061(A,266,36)	FILM CAPACITOR	ACE7013
⚠	C 3062(A,252,63)		ACG7039
	C 3063(A,289,115)	FILM CAPACITOR	CQMBA103J50
	C 3064(B,291,104)		CKSRYB102K50
	C 3065(B,289,104)		CKSRYB102K50
	C 3066(B,294,100)		CKSRYB102K50
	C 3067(B,308,85)		CKSRYB102K50
	C 3068(A,305,94)	ELECT. CAPACITOR	CEAT332M25
	C 3069(A,317,120)		CEAT221M25
	C 3071(B,311,88)		CKSRYB103K50

AB VOLUME ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	S 3571(A,272,203)	ROTARY ENCODER	ASX7049
	3571(A,251,238)	3P CABLE HOLDER	51048-0300

CAPACITORS

Mark	No.	Description	Part No.
	C 3571(B,274,214)		CKSRYB103K50
	C 3572(B,270,214)		CKSRYB103K50

AC DISPLAY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 3201(B,52,199)	DISPLAY U-COM	PE5615A
	IC 3301(B,121,166)	MICROCOMPUTER IC	PDC158A8
	IC 3302(A,17,218)	REMOTE RECEIVER UNIT	RPM7540-H9
⚠	IC 3304(B,166,152)	IC	S-1200B33-M5
	Q 3301(B,188,185)	DIGITAL TR(SC-70)	RT1N431M
	Q 3302(B,203,189)	DIGITAL TR(SC-70)	RT1N431M
	Q 3303(B,25,184)	DIGITAL TR(SC-70)	RT1N431M
	Q 3304(B,68,176)	DIGITAL TR(SC-70)	RT1N431M
	Q 3305(B,109,190)	DIGITAL TR(SC-70)	RT1N431M
	Q 3306(B,117,190)	DIGITAL TR(SC-70)	RT1N431M
	Q 3307(B,125,190)	DIGITAL TR(SC-70)	RT1N431M
	Q 3309(B,209,207)	TRANSISTOR(SC-70)	2SA1602A
	Q 3310(B,195,207)	TRANSISTOR	RT1N241M
	Q 3312(B,175,156)	MOS FET	2SK2034
	D 3201(B,235,212)	DIODE	MC2848-11
	D 3202(B,236,218)	DIODE	1SS352
	D 3301(A,176,187)	LED(RED)	SLR-343VC(NPQ)
	D 3303(A,212,187)	LED(RED)	SLR-343VC(NPQ)
	D 3305(A,29,185)	LED(RED)	SLR-343VC(NPQ)
	D 3307(A,65,185)	LED(RED)	SLR-343VC(NPQ)
	D 3309(A,112,185)	LED(BLUE)	SLR343BC4T(JKLM)
	D 3311(A,120,185)	LED(WHITE)	SLR343WBCT(MNPQ)
	D 3313(A,127,185)	LED(BLUE)	SLR343BC4T(JKLM)
	D 3315(B,187,209)	DIODE	1SS352
	D 3316(B,199,205)	DIODE	1SS352
	D 3317(B,190,209)	DIODE	MC2848-11
	D 3319(B,178,151)	DIODE	RB751V-40
	L 3201(B,235,223)	INDUCTOR	CTF1385
	L 3202(B,221,213)	CHIP SOLID INDUCTOR	ATL7002
	J 3202	JUMPER WIRE	D20PDY0620E
	V 3201(A,182,237)	FL TUBE DISPLAY	AAV7113
	S 3301(A,76,143)	SWITCH	VSG1024
	S 3302(A,63,140)	SWITCH	VSG1024
	S 3303(A,51,128)	SWITCH	VSG1024
	S 3304(A,63,126)	SWITCH	VSG1024
	S 3305(A,75,128)	SWITCH	VSG1024
	S 3306(A,76,113)	SWITCH	VSG1024
	S 3307(A,63,116)	SWITCH	VSG1024
	S 3308(A,50,113)	SWITCH	VSG1024
	S 3309(A,162,137)	SWITCH	VSG1024
	S 3310(A,127,137)	SWITCH	VSG1024
	S 3311(A,110,137)	SWITCH	VSG1024
	S 3312(A,64,163)	SWITCH	VSG1024
	S 3313(A,46,163)	SWITCH	VSG1024
	S 3314(A,28,163)	SWITCH	VSG1024
	S 3315(A,23,137)	SWITCH	VSG1024
	S 3316(A,50,143)	SWITCH	VSG1024
	S 3317(A,174,163)	SWITCH	VSG1024
	S 3318(A,192,163)	SWITCH	VSG1024
	S 3319(A,210,163)	SWITCH	VSG1024
	S 3320(A,215,137)	SWITCH	VSG1024
	S 3321(A,197,137)	SWITCH	VSG1024
	S 3322(A,180,137)	SWITCH	VSG1024
	S 3323(A,145,137)	SWITCH	VSG1024
	X 3201(A,74,191)	CERAMIC RESONATOR	VSS1142
	X 3302(A,142,150)	CRYSTAL OSCILLATOR	CSS1653
	CN 3301(A,220,164)	31P CONNECTOR	VKN1291

Mark	No.	Description	Part No.
	3201(A,121,201)	FL HOLDER(FE)	VNF1096
	3202(A,241,231)	6P CABLE HOLDER	51048-0600
	3301(A,241,211)	3P CABLE HOLDER	51048-0300
	3302(A,7,150)	3P CABLE HOLDER	51048-0300
	3303(A,7,190)	4P CABLE HOLDER	51048-0400

RESISTORS

Mark	No.	Description	Part No.
R	3201(B,68,240)		RS1/16S104J
R	3202(B,70,240)		RS1/16S104J
R	3203(B,72,240)		RS1/16S104J
R	3204(B,74,240)		RS1/16S104J
R	3205(B,76,240)		RS1/16S104J
R	3206(B,78,240)		RS1/16S104J
R	3207(B,80,240)		RS1/16S104J
R	3208(B,82,240)		RS1/16S104J
R	3209(B,84,240)		RS1/16S104J
R	3210(B,86,240)		RS1/16S104J
R	3211(B,88,240)		RS1/16S104J
R	3212(B,90,240)		RS1/16S104J
R	3213(B,92,240)		RS1/16S104J
R	3214(B,94,240)		RS1/16S104J
R	3215(B,96,240)		RS1/16S104J
R	3216(B,98,240)		RS1/16S104J
R	3217(B,100,240)		RS1/16S104J
R	3218(B,102,240)		RS1/16S104J
R	3219(B,104,240)		RS1/16S104J
R	3220(B,106,240)		RS1/16S104J
R	3221(B,108,240)		RS1/16S104J
R	3222(B,110,240)		RS1/16S104J
R	3223(B,112,240)		RS1/16S104J
R	3224(B,114,240)		RS1/16S104J
R	3225(B,116,240)		RS1/16S104J
R	3226(B,118,240)		RS1/16S104J
R	3227(B,120,240)		RS1/16S104J
R	3228(B,122,240)		RS1/16S104J
R	3229(B,124,240)		RS1/16S104J
R	3230(B,126,240)		RS1/16S104J
R	3231(B,128,240)		RS1/16S104J
R	3232(B,130,240)		RS1/16S104J
R	3233(B,132,240)		RS1/16S104J
R	3234(B,134,240)		RS1/16S104J
R	3235(B,136,240)		RS1/16S104J
R	3236(B,138,240)		RS1/16S104J
R	3237(B,140,240)		RS1/16S104J
R	3238(B,144,240)		RS1/16S473J
R	3239(B,146,240)		RS1/16S473J
R	3240(B,148,240)		RS1/16S473J
R	3241(B,150,240)		RS1/16S473J
R	3242(B,152,240)		RS1/16S473J
R	3243(B,154,240)		RS1/16S473J
R	3244(B,156,240)		RS1/16S473J
R	3245(B,158,240)		RS1/16S473J
R	3246(B,160,240)		RS1/16S473J
R	3247(B,162,240)		RS1/16S473J
R	3248(B,164,240)		RS1/16S473J
R	3249(B,166,240)		RS1/16S473J
R	3250(B,168,240)		RS1/16S473J
R	3251(B,170,240)		RS1/16S473J
R	3252(B,172,240)		RS1/16S473J
R	3253(B,174,240)		RS1/16S473J
R	3258(B,71,191)		RS1/16S105J
R	3259(B,63,180)		RS1/16S104J
R	3260(B,53,174)		RS1/16S104J
R	3261(B,231,208)		RS1/16S0R0J
R	3262(B,58,174)		RS1/16S101J
R	3263(B,56,174)		RS1/16S101J
R	3264(B,49,174)		RS1/16S104J
R	3306(B,15,179)		RS1/16S0R0J
R	3307(B,213,177)		RS1/16S0R0J
R	3310(B,207,180)		RS1/16S0R0J
R	3318(B,185,183)		RS1/16S681J
R	3319(B,202,185)		RS1/16S681J
R	3320(B,28,195)		RS1/16S681J
R	3321(B,70,180)		RS1/16S681J
R	3322(B,115,195)		RS1/16S151J
R	3323(B,123,195)		RS1/16S561J
R	3324(B,130,195)		RS1/16S151J
R	3326(B,153,151)		RS1/16S0R0J
R	3327(B,150,166)		RS1/16S101J
R	3329(B,147,157)		RS1/16S0R0J
R	3331(B,137,155)		RS1/16S105J
R	3332(B,139,153)		RS1/16S0R0J
R	3333(B,117,143)		RS1/16S474J
R	3334(B,117,141)		RS1/16S101J
R	3335(B,115,148)		RS1/16S473J
R	3336(B,115,146)		RS1/16S473J
R	3337(B,110,146)		RS1/16S473J
R	3338(B,110,148)		RS1/16S473J
R	3339(B,98,174)		RS1/16S101J
R	3340(B,99,183)		RS1/16S473J
R	3341(B,107,180)		RS1/16S101J
R	3342(B,105,180)		RS1/16S101J
R	3344(B,137,184)		RS1/16S101J
R	3345(B,139,179)		RS1/16S473J
R	3349(B,149,176)		RS1/16S101J
R	3350(B,149,174)		RS1/16S101J
R	3351(B,144,172)		RS1/16S101J
R	3352(B,75,147)		RS1/16S472J
R	3353(B,135,140)		RS1/16S472J
R	3354(B,178,168)		RS1/16S472J
R	3355(B,76,140)		RS1/16S681J
R	3356(B,56,132)		RS1/16S821J
R	3357(B,62,129)		RS1/16S122J
R	3358(B,71,128)		RS1/16S162J
R	3359(B,76,117)		RS1/16S272J
R	3360(B,62,113)		RS1/16S512J
R	3361(B,56,116)		RS1/16S123J
R	3363(B,119,137)		RS1/16S681J
R	3364(B,68,167)		RS1/16S821J
R	3365(B,55,161)		RS1/16S122J
R	3366(B,37,163)		RS1/16S162J
R	3367(B,28,140)		RS1/16S272J
R	3368(B,50,138)		RS1/16S512J
R	3369(B,188,163)		RS1/16S681J
R	3370(B,207,167)		RS1/16S821J
R	3371(B,220,140)		RS1/16S122J
R	3372(B,194,140)		RS1/16S162J
R	3373(B,189,137)		RS1/16S272J
R	3374(B,167,141)		RS1/16S512J

Mark	No.	Description	Part No.
R	3377(B,22,227)		RS1/16S101J
R	3378(B,206,205)		RS1/16S104J
R	3379(B,204,205)		RS1/16S104J
R	3380(B,202,205)		RS1/16S472J
R	3381(B,209,203)		RS1/16S102J
R	3382(B,213,203)		RS1/16S103J
R	3384(B,122,142)		RS1/16S221J
R	3385(B,122,147)		RS1/16S474J
R	3386(B,118,146)		RS1/16S221J
R	3387(B,118,148)		RS1/16S104J
R	3388(B,97,169)		RS1/16S221J
R	3389(B,95,170)		RS1/16S473J
R	3390(B,98,177)		RS1/16S221J
R	3391(B,101,176)		RS1/16S473J
R	3394(B,178,156)		RS1/16S333J
R	3395(B,173,154)		RS1/16S154J
R	3396(B,127,151)		RS1/16S104J
R	3397(B,110,173)		RS1/16S104J
R	3398(B,108,173)		RS1/16S104J
R	3399(B,101,172)		RS1/16S104J

CAPACITORS

Mark	No.	Description	Part No.
C	3201(B,179,239)		CKSRYB104K50
C	3202(B,61,240)		CKSRYB102K50
C	3203(A,193,234)	ELECT. CAPACITOR	CEAT101M35
C	3204(B,186,236)		CKSRYB471K50
C	3205(B,142,233)		CKSRYB471K50
C	3206(B,144,233)		CKSRYB471K50
C	3207(B,146,233)		CKSRYB471K50
C	3208(B,148,233)		CKSRYB471K50
C	3209(B,151,233)		CKSRYB471K50
C	3210(B,153,233)		CKSRYB471K50
C	3211(B,155,233)		CKSRYB471K50
C	3212(B,157,233)		CKSRYB471K50
C	3213(B,161,233)		CKSRYB471K50
C	3214(B,163,233)		CKSRYB471K50
C	3215(B,165,233)		CKSRYB471K50
C	3216(B,167,233)		CKSRYB471K50
C	3217(B,170,233)		CKSRYB471K50
C	3218(B,172,233)		CKSRYB471K50
C	3219(B,174,233)		CKSRYB471K50
C	3220(B,176,233)		CKSRYB471K50
C	3221(A,171,193)		CEJQ221M6R3
C	3222(B,232,213)		CKSRYB103K50
C	3223(B,78,196)		CKSRYB102K50
C	3224(B,67,196)		CKSRYB104K16
C	3225(B,61,180)		CKSRYB104K16
C	3227(B,46,187)		CKSRYB104K16
C	3228(B,47,214)		CKSRYB105K10
C	3230(B,49,214)		CKSRYB104K50
C	3231(A,43,239)		CEAT470M50
C	3301(B,183,185)		CCSRCH101J50
C	3302(B,206,186)		CCSRCH101J50
C	3303(B,29,191)		CCSRCH101J50
C	3304(B,66,180)		CCSRCH101J50
C	3305(B,114,192)		CCSRCH101J50
C	3306(B,122,192)		CCSRCH101J50
C	3307(B,129,192)		CCSRCH101J50
C	3309(B,137,162)		CKSRYB104K16

Mark	No.	Description	Part No.
C	3312(B,139,157)		CCSRCH120J50
C	3313(B,139,149)		CCSRCH120J50
C	3314(B,131,156)		CKSRYB105K10
C	3315(B,111,154)		CKSRYB104K16
C	3316(B,106,169)		CKSRYB104K16
C	3318(B,135,176)		CKSRYB104K16
C	3319(B,78,146)		CKSRYB102K50
C	3320(B,130,139)		CKSRYB102K50
C	3321(B,178,166)		CKSRYB102K50
C	3322(B,203,208)		CKSRYB103K50
C	3323(B,15,231)		CKSRYB103K50
C	3324(A,17,236)		CEJQ101M6R3
C	3325(B,213,174)		CKSRYB104K16
C	3326(B,213,172)		CKSRYB104K16
C	3327(B,122,149)		CKSRYB103K50
C	3329(B,103,176)		CKSRYB102K50
C	3330(B,162,155)		CKSRYB105K10
C	3331(B,171,155)		CKSRYB105K10
C	3332(B,133,180)		CKSRYB104K16
C	3333(B,118,181)		CKSRYB104K16

AD INPUT SELECT ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
S	3561(A,61,63)	ROTARY ENCODER	ASX7051
	3561(A,89,94)	3P CABLE HOLDER	51048-0300

CAPACITORS

Mark	No.	Description	Part No.
C	3561(B,63,74)		CKSRYB103K50
C	3562(B,59,74)		CKSRYB103K50

AE PREOUT & CONTROL ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2931(A,205,121)	RS232 IC	HIN202EIBNZ
IC	2932(A,179,86)	IC	NJM2794V
IC	2933(A,184,100)	IC	NJM2505AF
Q	2801(A,206,14)	TRANSISTOR	IMX25
Q	2802(A,206,21)	TRANSISTOR	IMX25
Q	2821(A,206,27)	TRANSISTOR	IMX25
Q	2822(A,206,34)	TRANSISTOR	IMX25
Q	2841(A,206,40)	TRANSISTOR	IMX25
Q	2842(A,206,47)	TRANSISTOR	IMX25
Q	2861(A,206,53)	TRANSISTOR	IMX25
Q	2862(A,206,60)	TRANSISTOR	IMX25
Q	2931(B,200,114)	TRANSISTOR	2SC4154
Q	2952(B,207,110)	DIGITAL TR(SC-70)	RT1N431M
D	2931(B,205,122)	DIODE	1SS352
D	2951(B,189,121)	DIODE	1SS352
D	2952(B,188,114)	DIODE	1SS352
D	2957(A,199,92)	DIODE	UDZS6R2(B)
D	2958(A,196,92)	DIODE	UDZS6R2(B)
D	2959(A,199,96)	DIODE	UDZS6R2(B)
D	2960(A,199,98)	DIODE	UDZS6R2(B)
JA	2804(A,229,98)	20P SOCKET	AKP7202
JA	2805(A,229,23)	PIN JACK(4P)	AKB7172
JA	2806(A,229,51)	PIN JACK(4P)	AKB7172
JA	2931(A,229,125)	9P D-SUB SOCKET	AKP1213
CN	2801(A,173,26)	CONNECTOR	CKS3389

Mark	No.	Description	Part No.
CN	2802(A,174,135)	23P SOCKET	XKP3082

RESISTORS

Mark	No.	Description	Part No.
R	2801(B,212,14)		RS1/16S101J
R	2802(B,212,21)		RS1/16S101J
R	2803(B,206,14)		RS1/16S121J
R	2804(B,206,21)		RS1/16S121J
R	2805(B,200,14)		RS1/16S271J
R	2806(B,200,21)		RS1/16S271J
R	2807(A,211,16)		RS1/16S103J
R	2808(A,211,22)		RS1/16S103J
R	2809(A,202,16)		RS1/16S103J
R	2810(A,202,22)		RS1/16S103J
R	2821(B,212,26)		RS1/16S101J
R	2822(B,212,34)		RS1/16S101J
R	2823(B,206,27)		RS1/16S121J
R	2824(B,206,34)		RS1/16S121J
R	2825(B,200,27)		RS1/16S271J
R	2826(B,200,34)		RS1/16S271J
R	2827(A,211,29)		RS1/16S103J
R	2828(A,211,35)		RS1/16S103J
R	2829(A,202,29)		RS1/16S103J
R	2830(A,202,35)		RS1/16S103J
R	2841(B,212,39)		RS1/16S101J
R	2842(B,212,48)		RS1/16S101J
R	2843(B,206,40)		RS1/16S121J
R	2844(B,206,47)		RS1/16S121J
R	2845(B,200,40)		RS1/16S271J
R	2846(B,200,47)		RS1/16S271J
R	2847(A,211,42)		RS1/16S103J
R	2848(A,211,48)		RS1/16S103J
R	2849(A,202,42)		RS1/16S103J
R	2850(A,202,48)		RS1/16S103J
R	2861(B,212,53)		RS1/16S101J
R	2862(B,212,62)		RS1/16S101J
R	2863(B,206,53)		RS1/16S121J
R	2864(B,206,60)		RS1/16S121J
R	2865(B,200,53)		RS1/16S271J
R	2866(B,200,60)		RS1/16S271J
R	2867(A,211,55)		RS1/16S103J
R	2868(A,211,61)		RS1/16S103J
R	2869(A,202,55)		RS1/16S103J
R	2870(A,202,61)		RS1/16S103J
R	2931(B,188,119)		RS1/16S0R0J
R	2932(B,213,122)		RS1/16S101J
R	2933(B,188,117)		RS1/16S0R0J
R	2934(A,210,128)		RS1/16S101J
R	2935(B,188,125)		RS1/16S0R0J
R	2936(B,209,120)		RS1/16S474J
R	2937(B,205,117)		RS1/16S103J
R	2938(B,203,117)		RS1/16S224J
R	2939(B,223,118)		RS1/16S0R0J
R	2940(B,210,116)		RS1/16S224J
R	2941(A,210,116)		RS1/16S101J
R	2942(A,203,126)		RS1/16S101J
R	2943(A,208,128)		RS1/16S101J
R	2951(B,192,87)		RS1/16S473J
R	2952(B,192,92)		RS1/16S473J
R	2953(B,191,84)		RS1/16S331J
R	2954(B,191,95)		RS1/16S331J
R	2957(B,215,108)		RS1/16S514J
R	2961(B,210,107)		RS1/16S393J
R	2965(B,174,103)		RS1/16S104J
R	2966(B,174,93)		RS1/16S104J
R	2970(B,200,99)		RS1/16S750J
R	2971(B,195,103)		RS1/16S101J
R	2972(B,195,101)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	2801(B,220,13)		CCSRCH101J50
C	2802(B,219,17)		CCSRCH101J50
C	2811(B,211,16)		CCSRCH271J50
C	2812(B,212,19)		CCSRCH271J50
C	2821(B,220,27)		CCSRCH101J50
C	2822(B,219,31)		CCSRCH101J50
C	2831(B,212,28)		CCSRCH271J50
C	2832(B,212,32)		CCSRCH271J50
C	2841(B,220,41)		CCSRCH101J50
C	2842(B,219,45)		CCSRCH101J50
C	2851(B,212,41)		CCSRCH271J50
C	2852(B,212,46)		CCSRCH271J50
C	2861(B,219,55)		CCSRCH101J50
C	2862(B,219,59)		CCSRCH101J50
C	2871(B,212,55)		CCSRCH271J50
C	2872(B,212,60)		CCSRCH271J50
C	2891(B,223,23)		CKSRYB103K50
C	2892(B,222,50)		CKSRYB103K50
C	2931(B,214,135)		CKSRYB103K50
C	2933(B,198,119)		CKSRYB104K16
C	2934(B,207,120)		CKSRYB104K16
C	2935(A,201,116)		CKSRYB104K16
C	2936(A,205,116)		CKSRYB104K16
C	2937(A,198,121)		CKSRYB103K50
C	2938(A,193,120)		CEAT101M16
C	2939(B,212,118)		CKSRYB103K50
C	2940(B,201,117)		CCSRCH331J50
C	2945(B,195,128)		CKSRYB102K50
C	2951(B,194,87)		CCSRCH101J50
C	2952(B,194,92)		CCSRCH101J50
C	2953(B,190,87)		CCSRCH101J50
C	2954(B,190,92)		CCSRCH101J50
C	2957(B,184,116)		CKSRYB103K50
C	2960(B,204,83)		CKSQYB105K16
C	2961(A,192,81)		CEAT4R7M50
C	2962(A,184,94)		CEAT4R7M50
C	2963(A,184,82)		CEAT4R7M50
C	2964(A,184,88)		CEAT4R7M50
C	2965(A,173,98)		CEAT4R7M50
C	2966(A,173,87)		CEAT4R7M50
C	2967(A,180,94)	ELECT. CAPACITOR	CEAT220M50
C	2968(A,181,79)		CEAT100M50
C	2973(B,215,114)		CKSRYB103K50
C	2976(B,222,108)		CKSRYB103K50
C	2979(A,181,99)		CKSRYB103K50
C	2980(A,189,105)		CEAT4R7M50
C	2981(A,188,99)		CEAT4R7M50
C	2982(A,184,105)		CEAT4R7M50

AF FR IN BARRIER1 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	2301(A,81,67)	PCB BINDER	VEF1040

AG HDMI POWER ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	H 6501(A,210,66)	FUSE CLIP	AKR7001
	H 6502(A,210,45)	FUSE CLIP	AKR7001
	CN 6501(A,213,85)	2P CONNECTOR	B2P-VH
	CN 6502(A,229,86)	2P TOP POST	B2B-EH
	CN 6503(A,227,38)	CONNECTOR	B4B-EH

CAPACITORS

Mark	No.	Description	Part No.
	C 6501(A,217,59)	FILM CAPACITOR	CQMBA102J50
	C 6502(A,232,55)	ELECT. CAPACITOR	CEAT682M25
	C 6503(B,230,83)		CKSRYB102K50

AH HDMI TRANS ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	Y 23 (A,239,230)	2P HOUSING WIRE ASSY	ADX7606
⚠	Y 22 (A,237,173)	2P HOUSING WIRE ASSY	ADX7603

AI HDMI DIODE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	D 6501(A,227,13)	DIODE	D3SBA20(B)
	J 6501(A,232,27)	CONNECTOR ASS'Y	PF04EN-S05
	6501(A,206,27)	PCB BINDER	VEF1040

AJ HDMI & DLNA ASSY (VSX-LX70)

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC 11		NJM2846DL3-33
⚠	IC 21		NJM2846DL3-18
⚠	IC 31		NJM2886DL3-33
	IC 101		SII9135CTU
	IC 151		TC74VHC126FTS1
	IC 201,1381,1383,1384		TC74LCX541FTS1
	IC 202		ICS571MLF
	IC 203		TC7WH74FU
	IC 204,205		TC7WH157FU
	IC 251		TC74LCX157FTS1
	IC 301		SII9134CTU
	IC 401		ADV7800BSTZ-80
	IC 402		TC7WHU04FU
	IC 501		PEG118A
	IC 502		AYW7181
	IC 504		BU4094BCFV
	IC 505		TC7WH125FU
	IC 506		TC7WT125FU
	IC 601		ADV7172KSTZ
	IC 701		DM850E
	IC 801		AAT4618IGV-0.5-1
	IC 861		RTL8201CP-LF
	IC 881		AYW7185
	IC 891		HY57V641620FTP-6
	IC 911		TC74VHC08FTS1
	IC 921		TC74VHCT08AFTS1
⚠	IC 1001		BD9011KV
⚠	IC 1051		PQ200WNA1ZPH
⚠	IC 1071		NJM78M05DL1A
	IC 1101,1151		CXB1442AR
	IC 1201,1203,1251,1253		BR24L02FV-W
	IC 1202,1204,1252,1254		TC7MB3257FK
	IC 1205,1206,1255,1257		TC7WBD125AFK
	IC 1301		FLI2310-LF-CF
	IC 1351		EDS6432AFTA-6B-E
	Q 151,152,352,1101		DTC114YUA
	Q 201		DTA124EUA
	Q 351		UMB1N
	Q 631,641,651,661		2SA1576A
	Q 671,681,1051		2SA1576A
⚠	Q 1001,1002		SP8K1
	Q 1052		DTC124EUA
	Q 1102,1104,1151,1152		DTC114YUA
	Q 1103,1153		2SB1689
	Q 1154,1201-1203		DTC114YUA
	Q 1251-1253		DTC114YUA
	Q 1281		HN1K02FU
	D 11,22		RB050L-40
	D 301		UDZS5R1(B)
	D 551		RB501V-40
	D 1001,1002		RB160VA-40
⚠	D 1003,1004		RLZ5.6B
⚠	D 1071		RLZ6.8B
	D 1101,1102,1151,1150		DAN202U

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 10	CHIP BEEDS FILTER	BTX1040
	L 101-104,301-305	CHIP BEADS	ATL7010
	L 105,106	CHIP SOLID INDUCTOR	QTL1013
	L 201	INDUCTOR	CTF1379
	L 202-204	CHIP SOLID INDUCTOR	ATL7002
	L 207,251	CHIP SOLID INDUCTOR	VTL1169
	L 351-354	COIL	ATH7022
	L 401,402,404,406	CHIP BEADS	ATL7010
	L 403,405	CHIP SOLID INDUCTOR	QTL1013
	L 501,601	CHIP SOLID INDUCTOR	ATL7002
	L 602	CHIP SOLID INDUCTOR	ATL7002
	L 631,641,651,661	INDUCTOR	ATL7015
	L 671,681	INDUCTOR	ATL7015
	L 701,702,861,862	INDUCTOR	CTF1357
	L 704-707	CHIP FERRITE BEADS	ATF1211
	L 801	CHIP FERRITE BEADS	VTL1169
	L 802	COIL	VTH1043
	L 871,881,891,911	INDUCTOR	CTF1357
	L 921	INDUCTOR	CTF1357
	L 1001,1101,1151	CHIP BEADS	ATL7010
	L 1002	INDUCTOR	DTL1135
	L 1003	INDUCTOR	ATL7013
	L 1092,1093	INDUCTOR	CTF1386
	L 1301-1305	CHIP SOLID INDUCTOR	ATL7002
	L 1351	CHIP SOLID INDUCTOR	ATL7002
	JA 301	HDMI CONNECTOR	AKP7220
	JA 701	RJ45C ONNECTOR TRNS	AKP1307
	JA 1101,1102,1151	HDMI CONNECTOR	AKP1318

Mark	No.	Description	Part No.
	JA 1152	HDMI CONNECTOR	AKP1318
	KN 1	SCREW PLATE	VNE1948
	X 101	CRYSTAL RESONATOR	ASS7068
	X 401	CRYSTAL RESONATOR	ASS7069
	X 501	CERAMIC RESONATOR	XSS3004
	X 701	CRYSTAL RESONATOR	XSS3003
	X 861	CRYSTAL RESONATOR	ASS7084
	X 1301	CRYSTAL RESONATOR	ASS7070
	CN502	7P CONNECTOR	VKN1411
	CN801	CONNECTOR	AKM1276
	CN901	22P CONNECTOR	RKN1063
	CN952	5P CONNECTOR	VKN1374
	CN1001,1002	CONNECTOR	CKS4898
	0	ID LABEL ASSY	AXW7015

RESISTORS

Mark	No.	Description	Part No.
	R 101,103-105		RAB4CQ220J
	R 108		RAB4CQ100J
	R 115,204,1385-1388		RAB4CQ680J
	R 119,331,333-341		RAB4CQ473J
	R 130-132,134-136		RAB4CQ220J
	R 304		RS1/16SS6800F
	R 428,429		RAB4CQ470J
	R 432,433		RAB4CQ560J
	R 434,437,442,443		RAB4CQ473J
	R 446,447,450,702		RAB4CQ473J
	R 464,465,467,468		RAB4CQ0R0J
	R 480-483,741,761		RAB4CQ220J
	R 579		RAB4CQ0R0J
	R 596		RAB4CQ101J
	R 609-612		RS1/16SS1201F
	R 633,643,653,663		RS1/16SS2200F
	R 634,644,654,664		RS1/16SS4700F
	R 635,645,655,665		RS1/10S0R0J
	R 673,683		RS1/16SS2200F
	R 674,684		RS1/16SS4700F
	R 675,685,1008,1009		RS1/10S0R0J
	R 712,764,779		RAB4CQ473J
	R 723		RS1/16S5101F
	R 724		RS1/16S3900F
	R 746,747,749		RAB4CQ330J
	R 769,771,789		RAB4CQ220J
	R 851-854		RAB4CQ330J
	R 867		RS1/16S2001F
	R 868-871		RS1/16S49R9F
	R 1002,1004		ACN7156
	R 1011		RS1/16SS4702F
	R 1012,1022		RS1/16SS1502F
	R 1023		RS1/16SS1202F
	R 1031,1095,1096		RS1/10S0R0J
	R 1052,1053		RS1/10S6R8J
	R 1057		RS1/16SS1801F
	R 1059		RS1/16SS2001F
	R 1071-1073		RS1/16S0R0J
	R 1110,1160		RS1/16SS4701F
	R 1314-1317,1352		RAB4CQ220J
	R 1394		RAB4CQ680J
	Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
	C 10		CEVW470M16
	C 11,31,801		CKSSYB104K16
	C 12,32		CKSQYB225K10
	C 13,421,735,1004		CKSSYB102K50
	C 21,106-108,110		CKSSYB104K10
	C 22		DCG1028
	C 23		CEVW221M4
	C 33		CEVW101M6R3
	C 101,102,301,302		DCH1165
	C 103,104,303-305		CKSQYB106K6R3
	C 105,113,121,122		CKSSYB105K6R3
	C 109,111,131,152		CKSSYB103K16
	C 114-120,123-126		CKSSYB104K10
	C 127,320,463,740		CCSSCH120J50
	C 128,462		CCSSCH100D50
	C 129,130,133,307		CKSSYB105K6R3
	C 132,134-139,151		CKSSYB104K10
	C 153,203,204,308		CKSSYB103K16
	C 201,205-207,251		CKSSYB104K10
	C 202		CEVW4R7M35
	C 210,718,721,860		CKSSYB471K50
	C 306,309,311,313		CKSSYB104K10
	C 310,312,314		CKSSYB105K6R3
	C 315,316,351,403		CKSSYB104K10
	C 317-319,404,433		CKSSYB105K6R3
	C 401,402		VCH1234
	C 419,434		CEVW101M16
	C 405-411,418,420		CKSSYB104K10
	C 412,414,435,436		CKSSYB103K16
	C 413		CKSSYB823K10
	C 415		CKSRYB824K10
	C 416		CKSSYB393K10
	C 417		CKSQYB106K6R3
	C 422-429,431,437		CKSSYB104K10
	C 430,432,710,742		CEVW100M16
	C 438,441-443		CKSSYB104K10
	C 439,440,1056,1303		DCH1201
	C 445-449,461,502		CKSSYB104K10
	C 501,613,1313,2503		CKSSYB103K16
	C 503		VCH1234
	C 601,611,802		CEVW101M16
	C 504,506,508,509		CKSSYB104K10
	C 505,610,1314-1318		CKSSYB105K6R3
	C 551,552,602-609		CKSSYB104K10
	C 612,614,615,617		CKSSYB104K10
	C 631,641,651,661		CKSSYB104K10
	C 632,633,642,643		CCSSCH101J50
	C 652,653,662,663		CCSSCH101J50
	C 671,681,701-706		CKSSYB104K10
	C 672,673,682,683		CCSSCH101J50
	C 708,709,711-717		CKSSYB104K10
	C 719,722,724-734		CKSSYB104K10
	C 720,867		CEVW220M16
	C 723,875		CEVW470M6R3
	C 736-739,861-865		CKSSYB104K10
	C 741,1339,1340		CCSSCH120J50
	C 743,1073,1302		CEVW100M16
	C 803-805		CKSSYB104K16

Mark	No.	Description	Part No.
	C 807,1305		CEVW101M16
	C 866,869,881,895		CKSSYB471K50
	C 868,871,872,874		CKSSYB104K10
	C 870,1351		ACH7174
	C 873		CEVW330M16
	C 876,877		CCSSCH180J50
	C 882,891-894,900		CKSSYB104K10
	C 897-899,911,921		CKSSYB471K50
	C 912,922,1054		CKSSYB104K10
	C 1001		CEVW470M25
	C 1002		CCG1195
	C 1005,1012,1017,1018		CKSRYB104K25
	C 1006		CKSSYB102K50
	C 1010		CKSRYB152K50
	C 1011,1024		BCG1059
	C 1013,1014,1022		CKSRYB105K10
	C 1015		CKSRYB332K50
	C 1016		CCSSCH330J50
	C 1019		CCSSCH221J50
	C 1020		CKSRYB103K25
	C 1021,1025,1072		CKSRYB104K25
	C 1023		CKSRYB222K50
	C 1051,1053		CKSQYB105K25
	C 1052		CKSQYB224K25
	C 1071		CEVW1R0M50
	C 1102-1109,1152-1159		CKSSYB104K10
	C 1110,1160		DCH1165
	C 1201-1206,1251-1256		CKSSYB104K10
	C 1301		VCH1234
	C 1306,1308-1312		CKSSYB104K10
	C 1319-1322,1324-1332		CKSSYB104K10
	C 1335-1338,1341		CKSSYB104K10
	C 1352-1363		CKSSYB105K6R3
	C 1381-1383		CKSSYB104K10
	C 2505-2507		CKSSYB103K16

AK HDMI & DVC ASSY (VSX-LX60)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 101		SII9135CTU
	IC 151		TC74VHC126FTS1
	IC 201,1381,1383,1384		TC74LCX541FTS1
	IC 251		TC74LCX157FTS1
	IC 301		SII9134CTU
	IC 401		ADV7800BSTZ-80
	IC 402		TC7WHU04FU
	IC 501		PEG118A
	IC 502		AYW7181
	IC 504		BU4094BCFV
	IC 505		TC7WH125FU
	IC 506		TC7WT125FU
	IC 601		ADV7172KSTZ
	IC 1001		BD9011KV
	IC 1051		PQ200WNA1ZPH
	IC 1071		NJM78M05DL1A
	IC 1151		CXB1442AR
	IC 1203,1251,1253		BR24L02FV-W
	IC 1204,1252,1254		TC7MB3257FK
	IC 1255,1257		TC7WBD125AFK
	IC 1301		FLI2310-LF-CF
	IC 1351		EDS6432AFTA-6B-E
	Q 152,352,1102,1151		DTC114YUA
	Q 351		UMB1N
	Q 631,641,651,661		2SA1576A
	Q 671,681,1051		2SA1576A
	Q 1001,1002		SP8K1
	Q 1052		DTC124EUA
	Q 1152,1154,1202		DTC114YUA
	Q 1153		2SB1689
	Q 1251-1253		DTC114YUA
	Q 1281		HN1K02FU
	D 301		UDZS5R1(B)
	D 551		RB501V-40
	D 1001,1002		RB160VA-40
⚠	D 1003,1004		RLZ5.6B
⚠	D 1071		RLZ6.8B
	D 1102,1151,1152		DAN202U

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 101-104,301-305	CHIP BEADS	ATL7010
	L 105,106	CHIP SOLID INDUCTOR	QTL1013
	L 207,251	CHIP SOLID INDUCTOR	VTL1169
	L 351-354	COIL	ATH7022
	L 401,402,404,406	CHIP BEADS	ATL7010
	L 403,405	CHIP SOLID INDUCTOR	QTL1013
	L 501,601	CHIP SOLID INDUCTOR	ATL7002
	L 602	CHIP SOLID INDUCTOR	ATL7002
	L 631,641,651,661	INDUCTOR	ATL7015
	L 671,681	INDUCTOR	ATL7015
	L 1001,1151	CHIP BEADS	ATL7010
	L 1002	INDUCTOR	DTL1135
	L 1003	INDUCTOR	ATL7013
	L 1092,1093	INDUCTOR	CTF1386
	L 1301-1305	CHIP SOLID INDUCTOR	ATL7002
	L 1351	CHIP SOLID INDUCTOR	ATL7002
	JA 301	HDMI CONNECTOR	AKP7220
	JA 1102,1151,1152	HDMI CONNECTOR	AKP1318
	X 101	CRYSTAL RESONATOR	ASS7068
	X 401	CRYSTAL RESONATOR	ASS7069
	X 501	CERAMIC RESONATOR	XSS3004
	X 1301	CRYSTAL RESONATOR	ASS7070
	CN 502	7P CONNECTOR	VKN1411
	CN 1001,1002	CONNECTOR	CKS4898

RESISTORS

Mark	No.	Description	Part No.
	R 101,103-105		RAB4CQ220J
	R 108		RAB4CQ100J
	R 115,204,1385-1388		RAB4CQ680J
	R 119,331,333-341		RAB4CQ473J
	R 130-132,134-136		RAB4CQ220J
	R 141-144		ACN1275
	R 304		RS1/16SS6800F
	R 428,429		RAB4CQ470J
	R 432,433		RAB4CQ560J
	R 434,437,442,443		RAB4CQ473J
	R 446,447,450		RAB4CQ473J
	R 464,465,467,468		RAB4CQ0R0J
	R 480-483,1314-1317		RAB4CQ220J
	R 579		RAB4CQ0R0J

Mark	No.	Description	Part No.
R	596		RAB4CQ101J
R	609-612		RS1/16SS1201F
R	633,643,653,663		RS1/16SS2200F
R	634,644,654,664		RS1/16SS4700F
R	635,645,655,665		RS1/10S0R0J
R	673,683		RS1/16SS2200F
R	674,684		RS1/16SS4700F
R	675,685,1008,1009		RS1/10S0R0J
R	1002,1004		ACN7156
R	1011		RS1/16SS4702F
R	1012,1022		RS1/16SS1502F
R	1023		RS1/16SS1202F
R	1031,1095,1096		RS1/10S0R0J
R	1052,1053		RS1/10S6R8J
R	1057		RS1/16SS1801F
R	1059		RS1/16SS2001F
R	1071-1073		RS1/16S0R0J
R	1160		RS1/16SS4701F
R	1352		RAB4CQ220J
R	1394		RAB4CQ680J
Other Resistors			RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
C	101,102,301,302		DCH1165
C	103,104,303-305		CKSQYB106K6R3
C	105,113,121,122		CKSSYB105K6R3
C	106-108,110		CKSSYB104K10
C	109,111,131,152		CKSSYB103K16
C	114-120,123-126		CKSSYB104K10
C	127,320,463,1339		CCSSCH120J50
C	128,462		CCSSCH100D50
C	129,130,133,307		CKSSYB105K6R3
C	132,134-139,151		CKSSYB104K10
C	153,308,412,414		CKSSYB103K16
C	201,251,306,309		CKSSYB104K10
C	210		CKSSYB471K50
C	310,312,314		CKSSYB105K6R3
C	311,313,315,316		CKSSYB104K10
C	317-319,404,433		CKSSYB105K6R3
C	351,403,405-411		CKSSYB104K10
C	401,419,434		CEVW101M16
C	402		VCH1234
C	413		CKSSYB823K10
C	415		CKSRYB824K10
C	416		CKSSYB393K10
C	417		CKSQYB106K6R3
C	418,420,422-429		CKSSYB104K10
C	421,1004,1006		CKSSYB102K50
C	430,432,1073,1302		CEVW100M16
C	431,437,438		CKSSYB104K10
C	435,436,501,613		CKSSYB103K16
C	439,440,1056,1303		DCH1201
C	441-443,445-449		CKSSYB104K10
C	461,502,504,506		CKSSYB104K10
C	503		VCH1234
C	505,610,1314-1318		CKSSYB105K6R3
C	508,509,551,552		CKSSYB104K10
C	601,611		CEVW101M16
C	602-609,612,614		CKSSYB104K10
C	615,617,631,641		CKSSYB104K10
C	632,633,642,643		CCSSCH101J50
C	651,661,671,681		CKSSYB104K10
C	652,653,662,663		CCSSCH101J50
C	672,673,682,683		CCSSCH101J50
C	1001		CEVW470M25
C	1002		CCG1195
C	1005,1012,1017,1018		CKSRYB104K25
C	1010		CKSRYB152K50
C	1011,1024		BCG1059
C	1013,1014,1022		CKSRYB105K10
C	1015		CKSRYB332K50
C	1016		CCSSCH330J50
C	1019		CCSSCH221J50
C	1020		CKSRYB103K25
C	1021,1025,1072		CKSRYB104K25
C	1023		CKSRYB222K50
C	1051,1053		CKSQYB105K25
C	1052		CKSQYB224K25
C	1054,1152-1159,1203		CKSSYB104K10
C	1071		CEVW1R0M50
C	1160		DCH1165
C	1204,1251-1256,1306		CKSSYB104K10
C	1301		VCH1234
C	1305		CEVW101M16
C	1308-1312,1319-1322		CKSSYB104K10
C	1313		CKSSYB103K16
C	1324-1332,1335-1338		CKSSYB104K10
C	1340		CCSSCH120J50
C	1341,1381-1383		CKSSYB104K10
C	1351		ACH7174
C	1352-1363		CKSSYB105K6R3

AL TRANS 1 ASSY

TRANS 1 ASSY has no service part.

AM USB ASSY (VSX-LX60)

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	701 (A,35,38)	USB MEDIA CONTROL IC	TCC8600-00X-EA-UG
⚠ IC	702 (A,63,28)	IC	NJM2872BF18
⚠ IC	703 (A,84,25)	IC	NJM2886DL3-33
IC	741 (A,64,16)	IC	TC7SZ125FU
IC	761 (A,67,47)	SD-RAM(64M)	HY57V641620FTP-6-K
IC	762 (A,90,42)	FLASH ROM	AYW7173
IC	771 (A,67,22)	LOAD SWITCHING	AAT4618IGV-0.5-1
IC	951 (A,59,17)	L-MOS AND GATE	TC7SET08FUS1
Q	771 (A,33,24)	DIGITAL TRANSISTOR	DTC143EUA
L	701 (A,41,54)	INDUCTOR	LCTC100K1608
L	702 (A,46,53)	CHIP SOLID INDUCTOR	QTL1013
L	703 (A,23,54)	CHIP SOLID INDUCTOR	QTL1013
L	704 (A,21,29)	CHIP SOLID INDUCTOR	QTL1013
L	731 (A,43,59)	CHIP FERRITE BEADS	VTL1169
L	733 (A,36,54)	COIL	VTH1043
L	741 (A,63,19)	CHIP SOLID INDUCTOR	QTL1013
L	761 (A,74,38)	CHIP SOLID INDUCTOR	QTL1013
L	762 (A,90,57)	CHIP SOLID INDUCTOR	QTL1013
L	763 (A,47,16)	CHIP SOLID INDUCTOR	QTL1013
L	952 (A,57,14)	CHIP SOLID INDUCTOR	QTL1013

Mark	No.	Description	Part No.
X	702 (A,49,46)	CRYSTAL OSCILLATOR	CSS1614
CN	701 (A,39,60)	PLUG(4P)	KM200NA4
CN	702 (A,87,16)	11P SOCKET	XKP3076

RESISTORS

Mark	No.	Description	Part No.
R	702 (A,48,39)		RS1/16SS101J
R	703 (A,50,40)		RS1/16SS101J
R	704 (A,42,46)		RS1/16SS472J
R	705 (A,25,37)		RS1/16SS472J
R	707 (A,36,49)		RS1/16SS473J
R	708 (A,40,53)		RS1/16SS101J
R	709 (A,41,47)		RS1/16SS103J
R	710 (A,50,39)		RS1/16SS101J
R	711 (A,48,37)		RS1/16SS101J
R	712 (A,29,48)		RS1/16SS101J
R	713 (A,30,49)		RS1/16SS101J
R	714 (A,31,48)		RS1/16SS101J
R	717 (A,22,30)		RS1/16SS101J
R	718 (A,23,30)		RS1/16SS101J
R	719 (A,26,47)		RS1/16SS101J
R	720 (A,27,49)		RS1/16SS101J
R	724 (A,31,51)		RS1/16SS472J
R	725 (A,33,53)		RS1/16SS472J
R	726 (A,34,54)		RS1/16SS472J
R	727 (A,25,41)		RS1/16SS220J
R	728 (A,32,49)		RS1/16SS101J
R	729 (A,51,37)		RS1/16SS101J
R	732 (A,30,60)		RS1/16S0R0J
R	734 (A,30,61)		RS1/16S0R0J
R	735 (A,38,52)		RS1/16SS153J
R	736 (A,34,51)		RS1/16SS153J
R	737 (A,37,51)		RS1/16SS100J
R	738 (A,35,51)		RS1/16SS100J
R	739 (A,86,20)		RS1/16SS221J
R	740 (A,33,50)		RS1/16SS101J
R	741 (A,66,19)		RS1/16SS151J
R	742 (A,77,23)		RS1/16SS101J
R	743 (A,75,23)		RS1/16SS101J
R	744 (A,73,23)		RS1/16SS101J
R	745 (A,88,19)		RS1/16SS472J
R	747 (A,45,41)		RS1/16S225J
R	748 (A,46,45)		RS1/16SS470J
R	752 (A,41,19)		RS1/16SS103J
R	756 (A,36,15)		RS1/16SS103J
R	763 (A,88,58)		RS1/16SS473J
R	771 (A,71,20)		RS1/16SS101J
R	772 (A,71,21)		RS1/16SS104J
R	951 (A,40,57)		RS1/16SS182J
R	952 (A,38,55)		RS1/16SS332J
R	953 (A,25,28)		RS1/16SS182J
R	954 (A,25,29)		RS1/16SS332J
R	955 (A,56,22)		RS1/16SS182J
R	956 (A,26,49)		RS1/16SS332J
R	958 (A,60,20)		RS1/16SS101J

CAPACITORS

Mark	No.	Description	Part No.
C	701 (A,29,28)		CKSSYB104K10
C	702 (A,30,28)		CKSSYB471K50
C	703 (A,32,28)		CKSSYB104K10
C	704 (A,33,28)		CKSSYB471K50
C	705 (A,36,27)		CKSSYB104K10
C	706 (A,37,27)		CKSSYB471K50
C	707 (A,40,27)		CKSSYB104K10
C	708 (A,39,27)		CKSSYB471K50
C	709 (A,43,47)		CKSSYB104K10
C	710 (A,43,48)		CKSSYB471K50
C	711 (A,42,50)		CKSSYB104K10
C	712 (A,44,50)		CKSSYB471K50
C	713 (A,38,49)		CCSRCH331J50
C	714 (A,42,52)		CKSQYB225K10
C	715 (A,41,49)		CKSRYB122K50
C	716 (A,47,36)		CKSSYB104K10
C	717 (A,47,32)		CKSSYB104K10
C	718 (A,47,33)		CKSSYB471K50
C	719 (A,25,45)		CKSSYB471K50
C	720 (A,26,45)		CKSSYB104K10
C	721 (A,24,47)		CEJQ101M6R3
C	723 (A,23,33)		CKSSYB471K50
C	724 (A,24,34)		CKSSYB104K10
C	726 (A,21,41)		CKSSYB104K10
C	727 (A,26,39)		CKSSYB471K50
C	728 (A,24,39)		CKSSYB104K10
C	729 (A,25,35)		CKSSYB471K50
C	730 (A,65,27)		CKSSYB103K16
C	731 (A,27,54)		CEJQ101M16
C	732 (A,34,56)		CKSRYB104K16
C	733 (A,43,57)		CKSRYB104K16
C	734 (A,48,36)		CKSSYB471K50
C	735 (A,23,44)		CKSSYB103K16
C	736 (A,26,30)		CKSSYB471K50
C	739 (A,46,50)		CCSRCH100D50
C	740 (A,46,47)		CCSRCH471J50
C	741 (A,92,19)		CEJQ101M16
C	742 (A,92,24)		CKSRYB104K16
C	743 (A,93,27)		CKSQYB225K10
C	744 (A,97,26)		CEJQ470M10
C	745 (A,65,31)		CKSQYB105K16
C	746 (A,67,28)		CKSQYB475K6R3
C	747 (A,34,48)		CKSSYB104K10
C	748 (A,33,48)		CKSSYB471K50
C	751 (A,45,17)		CKSSYB104K10
C	752 (A,62,16)		CKSSYB104K10
C	761 (A,76,39)		CKSSYB104K10
C	762 (A,77,39)		CKSSYB471K50
C	763 (A,71,39)		CKSSYB471K50
C	764 (A,67,40)		CKSSYB471K50
C	766 (A,57,40)		CKSSYB471K50
C	767 (A,90,55)		CKSSYB104K10
C	768 (A,90,54)		CKSSYB471K50
C	769 (A,43,55)		CKSRYB104K16
C	771 (A,71,25)		CKSQYB105K16
C	773 (A,64,23)		CKSRYB104K16
C	952 (A,57,17)		CKSRYB104K16

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.